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# UNITED STATES AIR FORCE IERA

# Historical Air Emissions Estimate, Kelly Air Force Base, TX

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March 2000

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Air Force Institute for Environment, Safety and Occupational Health Risk Analysis Risk Analysis Directorate Environmental Analysis Division 2513 Kennedy Circle Brooks Air Force Base TX 78235-5123

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### Introduction

The Agency for Toxic Substances and Disease Registry (ATSDR) was petitioned by the late congressman Frank Tejeda to perform a public health assessment (PHA) of neighborhoods north and southeast of Kelly AFB because of resident health concerns. ATSDR's PHA report dated September 9, 1999 indicated that there was evidence that residents north and southeast of Kelly AFB "are not currently exposed to levels of contaminants from Kelly AFB that would cause people to become sick." ATSDR concluded in the PHA that, "there is evidence that past air emissions may have been greater (than) current air emissions." However, ATSDR did acknowledge that there was not enough information about past levels of air emissions to determine if there was a public health hazard. ATSDR determined that past air emissions were "indeterminate" due to lack of information.

### **Background and Scope**

Earth Tech was tasked under Contract Number F41624-95-D-9016, Delivery Order 0049 to collect and analyze historical air emissions data from Kelly Air Force Base (AFB), TX in accordance with the Air Force Institute for Environment, Safety, and Occupational Health Risk Assessment (AFIERA) Directorate Statement of Work (SOW) dated 7 February 2000.

Earth Tech was limited in scope of work to certain years (1970 to 1975 and 1983 to 1989) with the assumption that these were "peak production years" for the support of military actions in Southeast Asia and increased defense activities, respectively. These years should give the ATSDR a "worst case" scenario of the air emissions at Kelly AFB. Additionally in the PHA report, the ATSDR commented that the past air emissions were indeterminate and included as possible contaminants volatile organic compounds (VOCs), fuel, and metals from industrial processes and aircraft. Given these conclusions, Earth Tech was limited in scope of work to specific Air Force industrial processes (jet engine testing, painting, depainting, and degreasing). These industrial processes included the following air pollutants: benzene; toluene; ethylbenzene; xylene; methylene chloride; methyl ethyl ketone (MEK); perchloroethylene; components of burned jet fuel (cadmium, chromium, formaldehyde, benzene, arsenic, and 1,3-butadiene); and metals as applicable to painting, depainting, plating, and degreasing operations (to include cadmium and chromium). Finally in order to best model past air emissions, Earth Tech was asked to provide emission stack heights, or if no stack heights were available, building heights, as well as hours of operation, and emission control efficiencies as applicable.

Earth Tech employed Texas Environmental Action and Management, LLC (TEAM) as a subcontractor to recommend how to appropriately utilize the data to model emissions, and describe uses and limitations of the modeling. TEAM was selected because of their relevant related experience, including air emissions estimating and air emissions modeling. Additionally, TEAM reviewed all of the data gathered from the bioenvironmental engineering casefiles including AF Forms 2761 (Hazardous Materials Inventory) and industrial hygiene area sampling information to best estimate air emissions from certain processes. TEAM's report can be found in Appendix B of this report. TEAM's air emissions estimates can be found in Appendix D. Because of the varying data sources, TEAM's estimates may differ from Earth Tech's with regard to presentation and calculations.

Because of the potential for spurious and inferred data, Earth Tech was asked to provide assumptions regarding the certainty of the data as to high, medium, or low confidence levels. Explanations regarding the method used to estimate the certainty of the data is discussed below.

### **Data Collection**

Data collection activities were conducted from October 12, 1999 through January 28, 2000 and consisted of information gathering, consolidation, and interviews with current and former employees.

### Information Gathering

Prior to 1989, Kelly AFB Bioenvironmental Engineering Services (BES) led the assessment of the base's air emissions inventories. Earth Tech examined over 500 BES casefiles (workplace hazard assessments) at the Kelly AFB BES office for information regarding stack testing, air emissions inventories, air sampling, and Texas Air Control Board (TACB) air permitting data. Information regarding chemical use (found on AF Forms 2761) was also gathered, as well as any production information, hours of operation, and operational information. Additionally, Earth Tech gathered some information at the Air Quality Branch of the Air Force Institute for Environment, Safety, and Occupational Health Risk Analysis (AFIERA) at Brooks AFB.

### Telephone Contacts

Kelly AFB Environmental Management (Kelly EM) provided Earth Tech with points of contact (POCs) at the following Workcenters:

- 1. Jet Engine Testing at building 655 (LP)
- 2. Building 360
- 3. Paint operations at building 329 (LDPAA)
- 4. Aircraft maintenance and repair (TIP)
- 5. Power Systems Program Management (LD)
- 6: Transient alert (OS)
- 7. Chrome plating, building 301
- 8. Bioenvironmental Engineering
- 9. Civil Engineering (CE)
- 10. 433rd Air National Guard
- 11. Kelly AFB History Office

### Outside Source Contacts

Earth Tech also contacted other entities that may have had information regarding production or processes:

- 1. HQ AFMC, Wright Patterson AFB, OH
- 2. AFIERA/Air Quality, Brooks AFB, TX
- 3. Warner Robins AFB, GA (Paint Shop)
- 4. Randolph AFB, TX (Aircraft Paint Shop)
- 5. Wright Patterson AFB Research Laboratory

Finally, the California Air Regulatory Board (CARB), the Aircraft Environmental Support Office (AESO) Naval Aviation Depot, San Diego, CA, and Southwest Research Institute in San Antonio, TX were contacted with regard to jet engine emissions, specifically, the speciation of JP-4 jet engine emissions.

Information that could not be gathered regarding emissions testing and process information (such as Material Safety Data Sheet or MSDS information) was gathered on the Internet. Sources on the Internet are listed in the reference section.

Other means of data collection included interviews with personnel who worked at Kelly AFB (in the Workcenters listed above in *Telephone Contacts*) in the following disciplines: jet engine testing, chrome plating, vapor degreasing, painting, and depainting. Interviews were conducted informally and consisted of questioning the former and present workers, as well as pursuing further leads. Previous workers in buildings 258 and 259 (which were demolished in 1979-1980) provided process information regarding chromium plating and estimated stack and building height.

Earth Tech organized the data into Microsoft Excel® spreadsheets by year emitted, and provided a summary sheet that broke out emissions by decade, building, and total emissions for the 1980s. Only the 1980s data was totalled because it was the most complete data set. The spreadsheets include the building and process, chemical, and calculations in tons per year and pounds per hour of operation. Stack heights are also included where possible. Occasionally, the data reported were for a particular process rather than a building, so stack heights could not be determined.

### Confidence Levels

Confidence levels were established on the best available data including assumptions made from existing data and whether the data are consistent. For instance, emission points (identifiers for exhaust or stack locations) from 1984 data did not match earlier emission points in 1975, so these could not be assigned a high confidence level. Additionally, if all criteria for a confidence level could not be met, the next lowest confidence level was assigned. The confidence level matrix is defined below:

### High

- Emission points (locations of stacks) are exact
- · Loss rates through evaporation and reclamation are known, not assumed
- · Exact emission factors known or available
- · Data gathered from actual inventory
- Stack heights are known and correspond to the emitter

### Medium

 Emission points are not available, but with further study, could be determined (eg: column number is known, but could confirm through examination of construction drawings)

- Emission factors are estimated based upon current practices (eg: using JP-8 data to estimate jet engine emissions prior to 1991 that used JP-4\*, and using/not using controls for chromium plating mist reduction)
- Loss rates are unknown
- Data was gathered from inventory using additional input from known processes and/or personnel interviews
- Stack heights assumed from best available data

### Low

- Emission points unknown (building demolished or data is grouped by chemical)
- Emission factors are unknown or unavailable
- Loss rates are unknown or unavailable
- Data gathered solely from interviews
- Stack heights unavailable (building demolished)

Confidence levels for each emission estimate can be found on the respective spreadsheet. All of the air emissions estimates were assigned a "Medium" confidence level because of missing data, with the exception of data for buildings 258 and 259 and data for 1967. Since buildings 258 and 259 were demolished, most of the operational, emission point, and stack or building height data was from interviews or otherwise assumed. Because of these many assumptions, all data for buildings 258 and 259 are of a low confidence level. Because the data from 1967 does not include speciation information for jet engine testing it is also assigned a low confidence level.

### Assumptions and Other Observations

Many of the data points were provided by the documentation reviewed; therefore, if there is no entry or "N/A" in a spreadsheet cell, it can be assumed that the data presented were already calculated. Data that were provided in tons per year were further broken down by emissions in pounds per hour. In many cases, the hours of operation were provided, but where they were not, a 5 day per week, 24 hour per day operation was assumed.

Emission points were provided only where they were documented. Earth Tech tried to assign emission points; however, when emission points for 1984 and 1975 were compared, there was very little correlation, leading Earth Tech to believe that the emission points had been changed throughout the years.

All calculations were in accordance with the AFIERA AEI Guidance document\*.

Where possible, Earth Tech cross-checked data with hand-written notes, or submissions from questionnaires that were submitted to the TACB.

There was not a substantive amount of information regarding painting operations, other than total volatile organic compound (VOC) totals. Earth Tech tried to get information regarding aircraft

<sup>\*</sup> JP-8 emission factors were applied to JP-4 combustion processes because JP-4 emission factors do not exist for the chemicals within scope. Personnel familiar with this process revealed that the jet engine testing process has not changed much since the 1970s.

painting operation; however, there were no records found that provided the type of paint used except for year 1986. Interviews to get this type of information proved ineffective due to the length of time that has spanned since personnel worked in this area (e.g., personnel cannot remember specific process information that far back).

Earth Tech was unsuccessful in gathering documentation regarding abrasive blasting operations because of the lack of data.

Chrome plating emissions were estimated only where original estimates were documented. Although Earth Tech had access to amounts of chromic acid used in the process, information regarding the tank surface area, amount of hard electroplating versus decorative, and the power at which the electroplating was performed was difficult to obtain because of the sole reliance upon personal memory from interviews. All of these components are used in the recommended emissions calculations; therefore, estimates from the amount of material used were not performed.

For the T-56 engine, there was some emission factors at the idle setting that were missing, so the approach setting was used.

For all solvent use (methylene chloride, methyl ethyl ketone, and toluene), it was assumed that 100% volatilization occurred because the solvents were wiped on or sprayed. For degreasing operations, 25% volatilization was assumed because perchloroethylene is used in tanks; therefore more of an enclosed process.

Where phenolic stripper was used, Earth Tech assumed that the methylene chloride in the stripper had a 60% concentration based on an MSDS.

### **Problems Encountered**

Supporting documents were sometimes hard to find. Earth Tech could not find any information regarding speciation of emissions from jet engines using JP-4 fuel. The only information found was for criteria pollutants: particulates, oxides of nitrogen, oxides of sulfur, carbon monoxide, carbon dioxide, and total hydrocarbons.

The building heights and stack heights are listed in Appendix A, and were gathered by Earth Tech through review of air emissions inventories, Kelly AFB Civil Engineering construction drawings, and by the use of an electronic distance meter. Building and stack heights were often unavailable in Civil Engineering. Some buildings had been demolished and Kelly AFB Civil Engineering often did not have the construction drawings. Additionally it was often not possible to determine if the stack corresponded with the hazard. For example, a stack height would be useless when dealing with aircraft paint stripping with methylene chloride because the methylene chloride is not vented, but rather volatilized into the ambient air. Many stacks were nothing more than exhaust vents (i.e., over vapor degreasing tanks), and it was not possible to determine if the stack had been modified.

Interviews were conducted with POCs provided by Kelly EM. Interviews were attempted for aircraft painting; however, little information was gathered due to lack of documentation. Because these operations took place 15 to 25 years ago and the processes have changed, many people could not remember details regarding quantities of chemical used or what types of emission controls were in place. Telephone calls placed to the primary POCs listed under the "Data Collection" section were returned on a regular basis; however, phone calls made as a result of pursuing a further lead often ended with no fruitful information.

No data for one single year appeared comprehensive with regard to complete, speciated air emissions. Assumptions were made and are outlined in the previous section. Earth Tech's air emissions estimates can be found in Appendix C.

### Conclusions and Recommendations

Based on the data that has been gathered and analyzed, Earth Tech concludes that the data from the 1980s is the best available data to use for modeling purposes, specifically 1984, 1985, and 1986. Data from the 1970s is often sketchy, and although the confidence levels are the same for the 1970s data as the 1980s data, the 1970s data contains more uncertainty due to the extensive assumptions that were used when reviewing the data.

In concordance with TEAM, Earth Tech agrees that this data is best modeled using the Tier 1 approach. The Tier 1 analysis is the first part of an EPA three-tiered modeling process, defined in EPA-450/4-92-001, A Tiered Modeling Approach for Assessing the Risks due to Sources of Hazardous Air Pollutants. Tier 1 analyses are performed when there is a question of whether or not the identified source has the potential to cause a significant impact.

Earth Tech recommends that only building heights be used for modeling because of the disparity in stack heights and the uncertainty of the locations and functions of the stacks. Additionally, Earth Tech recommends that Kelly AFB consider industrial facilities that surround the base as a potential source of emissions.

### References

- The Air Force Institute for Environment, Safety, and Occupational Health Risk Assessment (AFIERA) Air Quality Branch, Air Emissions Inventory (AEI) Guidance Manual: <a href="http://sg-www.satx.disa.mil/AFIERA/rse/airtool.htm">http://sg-www.satx.disa.mil/AFIERA/rse/airtool.htm</a>
- 2. The Defense Technical Information Center: <a href="http://www.dtic.mil/">http://www.dtic.mil/</a>
- 3. University of Vermont Safety Information Resources, Inc. (SIRI): http://siri.uvm.edu/msds/
- 4. California Air Resources Board: http://www.arb.ca.gov/homepage.htm
- 5. Environmental Protection Agency, Compilation of Air Emission Factors, Fifth Edition, Volume 1: <a href="http://www.epa.gov/ttnchie1/ap42.html">http://www.epa.gov/ttnchie1/ap42.html</a>
- 6. Gratt, Lawrence B., Toxic Risk Assessment and Management, 1996, Von Nostrand Reihnold

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# APPENDIX A BUILDING AND STACK HEIGHTS

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## Kelly AFB Building/Stack Heights Page 1

Bldg#	⊮ Bldg Ht:	Drawing Date	Notes Notes
258	20 (est.)	N/A	Building demolished early 1980s. Est. based on interview
259	20 (est.)	N/A	Building demolished early 1980s. Est. based on interview
295	20.97'		Take the state of
296	12.34'		
300	20.35		
301	32.42'		Separate exterior exhaust stacks 44.75'; beside facility
302	12.48'		
305	27.33		
306	13' 10"	Feb-42	
308	65'	Jun-51	Exhaust vents @ 30' height
309	23.41'		
310	47' 6"	Oct-92	
312	60.08'		
313	13'		
315			No map available; facility not located
320	24.63'		•
321	26.68'		
322	17.41'		
323	16' 3"	Feb-43	
324	53.27		
325	29.08'		
326	31'		
328	19.80'		
329	41.74'		Height includes 6 exhaust vents
<b>3</b> 33	36.59'		Height includes several exhaust vents
338	17' 6"	Jan-82	
339	27.55'		
340	20' 5"		
342	13.91'		
345	26.16'		
346	15'		
347	21'		
348	30'		
348A	16.97'		
351	26.57'		
352	29.36'		•
<b>355</b>	8.03'	•	
356 357	92'		
357 <b>360</b>	14.50'	Mor 94	Uninks includes Quant wills 44 El. 4 El.
361	57.63' 109' 6"	Mar-81	Height includes 2 vent grills (4.5' x 4.5')
363	47'	Jan-94	
364	8.53'		
365	6.53 110' 5"	Sep-70	
366	110 3	Sep-10	Equility domalished
370	25'	Apr-91	Facility demolished
374	15.5'	Whi-9 i	
375	87'	Mar-53	
376	56'	Mai-JJ	
0	00		

# Kelly AFB Building/Stack Height Page 2

Bldg#	Bldg Ht.	Drawing Date	Notes:
377			No man available: facility not leasted
385	14' 10"	Sep-82	No map available; facility not located
389	8.03'	OCP-02	
391	0.00		No map available; facility not located
392	34' 6"		no map available, facility not located
394	0, 0		No map available; facility not located
397	40.79'		no map available, rability not located
645	30'	Sep-55	2 circular fans / 5' high
647	29.36'		2 on odial ratio, o riigit
650	54'	Feb-58	
651	41' 6"	Jun-51	Exhaust system mid-roof
652	50.28'		
654	9.96'		
655	51.17'		
892			No map available; facility not located
914	11' '		Building height 15' with 5 circular vents
918	13.49'		
919			Facility 919 not located
920	15.11'		
926			Facility 926 not located
929	11.93'		
930	25.33'		
1147	26.80'		
1149	24.34'		
1150	041.08		Facility 1150 not located
1151	31' 6"	May-73	Rectangular stack 1' high/20' wide
1153	10.68'		
1155	32.46'		M 2-11- 6-29
1156 1160	106'		No map available; facility not located
1414	10' 6"	lon 05	
1416	21.22'	Jan-85	
1417	15.06'		
1418	13.00		No map available; facility not located
1419	12.67'		Original building 11.68' - building addition (trailer) 12.67'
1420	27.47'		Original ballating 11.00 - ballating addition (trailer) 12.07
1423	16.78'	•	
1610	91'	Oct-40	2 ridge vents / 1' high - 30' wide
1612	37.80'		Building height includes 1 aluminum stack
1614	21'		g to g to to g to to g to to g to g to
1637	15.64'		
1643	10.97'	•	
3004	26.89'		
3007	28.91'		
3008	33.81'		
3010	15.74'		
3020			Facility 3020 not located

Bldg#	Bldg Ht.	Drawing Date Notes
3030 3050 3060	80.11' 20.22' 28.06'	Height includes numerous vents
3064 3178 3180 3221	25.04' 26.89' 18.68' 31.89'	

**Bold Numbers** indicate buildings where emission information was gathered. Non-Bold Numbers indicate surrounding buildings.

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APPENDIX B TEAM, LLC REPORT THIS PAGE LEFT INTENTIONALLY BLANK

HISTORICAL AIR EMISSIONS ESTIMATES KELLY AFB, TEXAS Contract Number F41624-95-D-0016 Delivery Order 49

Purpose: The purpose of this document is to present the results of Texas Environmental Action and Management, LLC's (TEAM) consolidation and analysis of historical air emissions data collected at Kelly Air Force Base (AFB), Texas. Specifically, TEAM was tasked to (1) review gathered data and assess any calculations and assumptions that can be made from the data as being of a high, medium, or low level of confidence, (2) provide consulting recommendations regarding the feasibility of conducting air modeling with the subject data, and (3) prepare a written summary report. The scope of the data review was limited to the following processes: jet engine testing, aircraft painting, aircraft depainting, degreasing, and chrome plating. The chemicals were limited to the following: toluene, methyl ethyl ketone, methylene chloride, perchloroethylene, xylene, and components of burned jet fuel as applicable to jet engine testing emissions (to include cadmium, chromium, formaldehyde, benzene, arsenic, and 1,3-butadiene, and metals as applicable to the painting, depainting, plating, and degreasing operations. Mr. Charles Attebery, PE and Ms. Nancy Miller, PE, who are both former Air Force (AF) bioenvironmental engineers, conducted all work in accordance with the guidance documents described in Paragraph 1.4 of the Statement of Work. TEAM utilized additional guidance documents including A Tiered Modeling Approach for Assessing the Risks Due to Sources of Hazardous Air Pollutants (EPA, 1992).

<u>Background:</u> This study of historical emissions data was made in response to an Agency for Toxic Substances Disease Registry (ATSDR) Public Health Assessment (PHA) conducted at Kelly AFB that stated, "available data on past usage or emissions for many contaminants was insufficient or not suitable for analysis. There is evidence that past air emissions may have been greater than current air emissions."

ATSDR based many of its conclusions and recommendations on air modeling conducted with 1996 data. It noted in its report that emissions air modeling uncertainty cannot be accurately quantitated, and that several sources of error exist. ATSDR also noted the rate of emission, physical location of emission, or the physical form of the chemical in emission as sources of uncertainty. It also noted that meteorological data, decay rates, deposition rates, or obstructions impact modeling results. It identified data gathering and calculations as sources of error. ATSDR specifically noted that the estimation of past emissions might contain error because it is not known how representative the selected values were.

ATSDR stated in its report that the level of exposure to contaminants from Kelly AFB remains uncertain and will remain so, due to the unavailability of past emissions data. It recommended that a method of determining potential past emissions of contaminants from Kelly AFB be identified. Based on this recommendation and public concern that Kelly AFB contributed to area health impacts, Kelly AFB issued a delivery order

(F41624-95-D-0016-0049) to EARTH TECH, Inc. (EARTH TECH) to assess historical air emissions records at Kelly AFB. The purpose of the assessment was to determine if any method of calculating or estimating potential past contaminant emissions from Kelly AFB results in data suitable for use in emissions air modeling.

Relevant background information on the Agency for Toxic Substances Disease Registry (ATSDR) mission and other useful information can be found on the Internet at URL http://atsdr1.cdc.gov:8080/HAC/pha.html.

The United States Environmental Protection Agency (EPA) agrees that air emissions models have limitations and has taken steps, through the preparation of guidance documents, to simplify air emissions dispersion analyses in the determination of health effects. EPA guidance defines a three-tier process in EPA-450/4-92-001, A Tiered Modeling Approach for Assessing the Risks due to Sources of Hazardous Air Pollutants. The approach is especially useful and cost effective in screening historical data, which may be incomplete, collected for other purposes, or suspect with regard to data quality. The three-tier approach is as follows:

<u>Tier 1 Analyses:</u> Tier 1 analysis of a stationary source (or group of sources) of toxic pollutant(s) is performed to address the question of whether or not the source has the potential to cause a significant impact. This "screening" analysis is performed by using tables of lookup values to obtain the "worst-case" impact of the source being modeled. The analysis is performed to assess both the potential long- and short-term impacts of the source. If the predicted screening impacts are less than the appropriate levels of concern, no further modeling is indicated. If the predicted screening impacts are above any levels of concern, further analysis of those impacts at a higher Tier may be desirable to obtain more accurate results.

The Tier 1 "lookup tables" have been created as tools that may be easily used to estimate conservative impacts of sources of toxic pollutants with a minimal amount of information concerning those sources. The normalized annual and 1-hour concentration tables were created based on conservative simulations of toxic pollutant sources with Gaussian plume dispersion models. In this context, "conservative" simulations use conservative assumptions regarding meteorology, building downwash, plume rise, etc.

<u>Tier 2 Analyses:</u> Tier 2 analysis of a stationary source (or group of sources) of toxic pollutant(s) may be desired if the results of a Tier 1 analysis indicate an exceedance of a level of concern with respect to one or more of the following: (1) the maximum predicted cancer risk; (2) the maximum predicted chronic noncancer hazard index, or; (3) the maximum predicted acute hazard index. Note that in situations where only one or two of the Tier 1 criteria are exceeded, only those analyses, which exceed the Tier 1 criteria, may need to be performed at the higher Tier. For example, if the Tier 1 analysis showed cancer risk and chronic noncancer risks to be of concern while the acute risk analysis showed no cause for concern, only long-term modeling for cancer risk and chronic noncancer risk may need to be performed at Tier 2. Tier 2 analyses are slightly more sophisticated than Tier 1 analyses, and therefore require additional input information as well as a computer for their

execution. Tier 2 analyses are structured around the EPA's SCREEN model and its corresponding documentation. The SCREEN model source code and documentation is available through the OAQPS TTN (see Appendix A in EPA-450/4-92-001).

Again, similar to the Tier 1 analysis, if any of the predicted impacts from Tier 2 are above the appropriate levels of concern, further modeling is indicated at a higher Tier.

Tier 3 Analyses: Tier 3 analysis of a stationary source (or group of sources) of toxic pollutant(s) may be desired if the results of a Tier 2 analysis indicate an exceedance of a level of concern with respect to one or more of the following: (1) the maximum predicted cancer risk; (2) the maximum predicted chronic noncancer hazard index, or; (3) the maximum predicted acute hazard index. Tier 3 analysis of a stationary source (or group of sources) of toxic pollutant(s) is performed to provide the most scientifically-refined indication of the impact of that source. This Tier involves the utilization of site-specific source and plant layouts as well as meteorological information. In contrast to the previous Tiers, Tier 3 allows for a more realistic simulation of intermittent sources and combined source impacts. In addition, results from short-term analyses indicate not only if a risk level of concern can be exceeded, but also how often that level of concern might be exceeded during an average year. Dispersion modeling for the Tier 3 analysis procedure is based on use of the EPA's Industrial Source Complex (ISC2) model, and as such utilizes many of the same techniques recommended in the "Guideline on Air Quality Models (Revised)" approach to the dispersion modeling of criteria pollutants.

To facilitate the dispersion modeling of toxic air pollutants, the EPA has developed TOXLT (TOXic modeling system Long-Term) for refined long-term analyses, and TOXST (TOXic modeling system Short-Term) for refined short-term analyses. The TOXLT system incorporates the ISCLT2 (long-term) directly to calculate annual concentrations and the TOXST system incorporates the ISCST2 (short-term) model directly to calculate hourly concentrations. Codes and user's guides for both TOXLT and TOXST are available via electronic bulletin board (see Appendix A in EPA-450/4-92-001).

<u>Data Summary:</u> TEAM summarized various emissions and chemical usage data gathered by EARTH TECH for the subject chemicals. The data were organized by building/process, chemical, and year/decade emitted/used, where possible. Emissions and usage records spanned almost 30 years. The majority of the data was from the 1980s, followed by 1970s data. EARTH TECH collected little 1990s data. Approximately one-half of the data consisted of "baseline" chemical usage data that was collected or verified on an annual basis by the Base Bioenvironmental Engineering Services (BES) office for the primary purpose of evaluating occupational exposures to the workers who used the chemicals. The balance of the data consisted of various sampling events ranging from area samples of specific operations to personal sampling of personnel to stack emissions sampling. No one source of data for a single shop or building spanned each decade. Data summary tables that identify the level of confidence that should be placed on data for modeling purposes are included as Attachment A.

Assessment of EARTH TECH Assumptions and Calculations: TEAM did not identify an improved alternative to the data gathering approach employed by EARTH TECH. EARTH TECH personnel collected 'best available historical usage and emissions data' from the Kelly AFB BES's industrial hygiene casefiles in its attempt to speciate bulk Kelly AFB air emissions into the subject chemicals. EARTH TECH employed a reasonable approach to calculating emissions from jet engine testing, using scarce data on speciated emission factors for various jet engines, estimates of test time periods, and an estimate of the number of tests conducted. The EARTH TECH approach offers the best chance of identifying and/or calculating speciated emissions for the subject chemicals and processes.

## Consulting Observations, Conclusions and Recommendations:

### Observations and Conclusions

- There is significantly more 'best available data' from the 1980s than from the 1970s.
- The use of trichloroethane in the 1970s appears to have been phased out in favor of methylene chloride and perchloroethylene in the 1980s.
- The 1970s data focused on trichloroethane studies and sampling.
- Summary calculations (by chemical) for the 1970s data do not appear to be a comprehensive listing of emissions (overall accuracy is low).
- Summary calculations (by chemical) for the 1980s data appear to be a comprehensive listing of emissions as verified by comparison to some Kelly AFB annual emissions estimates (overall accuracy is moderate).
- The 1980s 'best available data' appears adequate to perform EPA Tier 1 air emissions modeling, although additional data including stack height and distance of each stack to the nearest receptor needs to be collected.
- The 1970s 'best available data' appears incomplete and is not adequate to perform EPA Tier 1 air emissions modeling.
- None of the 'best available data' included in this assessment is adequate to perform EPA Tier 2 or Tier 3 air emissions modeling.
- The air emissions modeling (Tier 1) that can be conducted with the 1980s data will yield a gross approximation of exposure outside Kelly AFB boundaries.

### Recommendations

- Collect or estimate stack height(s) and distance(s) from sources to the Kelly AFB boundary and other information required to perform EPA Tier 1 air emissions modeling.
- Perform EPA Tier 1 modeling for 1980s data.

### **ATTACHMENT A**

Data Assessment Methodology: Kelly AFB BES was the source of the 'best available data' collected by EARTH TECH and reviewed by TEAM. BES is primarily responsible for identifying and evaluating occupational exposures to hazardous materials and providing necessary recommendations to ensure worker protection. BES also performs environmental monitoring, as well numerous other duties. In the past BES, produced annual Air Emissions Inventory (AEI) reports. These duties require BES personnel to maintain records of chemical usage throughout the base. In the 1970s and 1980s this data was predominately collected by visiting the workplace and performing a physical inventory of the chemicals used by the workplace. BES recorded this chemical usage information for each workplace on an AF Form 2761, Hazardous Material Inventory. BES then evaluated the chemical usage information and determined personal and area contaminant concentration sampling needs. Personal and area contaminant concentration sampling results are recorded on AF Form 2750, Industrial Hygiene Sampling Data. All chemical usage and sampling information is maintained in a casefile for each industrial Today, the majority of this information is collected using a variety of computerized material tracking systems and verified during workplace visits.

Data included chemical usage and personal/area air sampling results that spanned from the early 1970s through the early 1990s. No data for a single year appeared comprehensive with regard to a complete set of chemical usage, sampling, or AEI results. TEAM calculated annual emissions of the subject chemicals using the following assumptions:

- General chemical exposure and usage did not significantly change during either the 1980s and 1970s as 10-year groups.
- TEAM prioritized calculated and actual air emissions data contained in AEIs or casefiles as the highest quality and gave it priority if two sources of data were available for the same building during either the 1980s or 1970s.
- TEAM prioritized baseline chemical usage data as the second most reliable source
  of data that could be converted to an estimate of emissions by assuming a percent
  volatilization during use.
- TEAM prioritized personal sampling data as the least reliable source of data that
  could be converted to an estimate of emissions by assuming a volumetric flowrate
  and annual operations time period.
- TEAM assumed a standard volumetric air flow rate of 10 cubic feet per minute to convert personal air sampling results to estimate emissions for specific chemicals from personal or area sampling results.
- TEAM assumed a standard annual operations time period of one day (8 hours) per week for 52 weeks to estimate emissions for specific chemicals from personal or area sampling results.
- TEAM utilized worst case values (values resulting in the highest emission rate) when more than one set of chemical usage data of equal quality were available.
- TEAM utilized an arithmetic average where more than one personal or area sampling data were available for a specific building or operation.

- TEAM assumed that degreasing operations lead to a 25% volatilization of the degreasing chemical. It was assumed that perchloroethene (PCE) was used as degreasers in tanks or some other type of system where, ultimately, 75% of the material was disposed via some method other than evaporation.
- TEAM assumed that painting/coating operations lead to a 100% volatilization of paint/coating solvent and thinner components.
- TEAM assumed that 2.5% of coatings such as zinc chromate primer is lost through overspray during painting operations.
- TEAM assumed that the use of cleaning solvents lead to a 100% volatilization of the solvent. It was assumed that ethyl benzene, methylene chloride, toluene, and methyl ethyl ketone (MEK) was used in a manner where 100% of the material volatilized, such as aerosol or wipe on/wipe off applications.

APPENDIX C
EARTH TECH'S AIR EMISSIONS ESTIMATES

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Estimated Emissions per year

	Carried Street Street		このでは、これのこのでは、人が一人のこれの	CALL STATE OF THE			- C.	
258 Degreasing	easing	Perchloroethylene				Keromina and	at a anger of soldier	Estimated
259 Degreasing	easing	Perchloroethylene					6.2 tpy	1.55E+00
301 Chen	301 Chemical Cleaning	Perchloroethylene		A BOO O Cashur	- Silvin	107	4.2 tpy	1.05E+00
301 Degreasing	easing	Parchloroethylana		1,000,0	ganyı	8.10E+00		
301 Chro	301 Chrome Plating	Chromic Acid		44,000.0 gallyr	gallyr	4.05E+01		
301 Degreasing	easing	Parchloroethylono		40,636.0 gallyr	gailyr	2.73E+04	<del>.</del>	
301 Degreesing	Basing	Perchiprosthulane		60,000.0 gal/yr	gal/yr	1.01E+02	~	
301 Plating	Succession of the succession o	Hexpiralest Chamin		222,750.0 lbs/yr	bs/yr	2.78E+0		
301 Plating	50	Hovevalent Chromium	J. J.		Unk	4.00E-03	·	
204 Dietis	S. I	nexavalent Chromium	XIO.		Unk	4.00E-03	<u> </u>	
304 Plating	<u>g</u> r	Hexavalent Chromium	Cnk		Unk	4.00E-03	TeX.	
301 Plating	ŋg	Hexavalent Chromium	Unk		Unk	4.00E-03	1	
301 Plating	ВL	Hexavalent Chromium	Unk		Crk	4.00E-03	T.	
301 Plating	ВL	Hexavalent Chromium	Unk		Cak	4.00F-03		
301 Plating	рг	Hexavalent Chromium	Unk		Un	4.00F-03	Tir.	
301 Plating	DL.	Hexavalent Chromium	Cnk		Unk	4 00F-03		
301 Degreasing	easing	Perchloroethylene	Unk		Unk	1 35F±02		
301 Degreasing	easing	Perchloroethylene	Unk		Unk	2 705402		
310 Phen	310 Phenolic Stripper	Methylene Chloride		60.0	60.0 gal/mo	2 405+02		
312 Degreasing	easing	Perchloroethylene		275.0 gal/mo	om/let	A 12E 04		
324 Thinn	324 Thinning Solvent	Methyl Ethyl Ketone				1.135-0		
324 Degreasing	easing	Perchloroethylene					2.0 tpy	2.00E+00
324 Degreasing	easing	Perchloroethylene		165.0 gal/mo	om/let	2 40 = 04	2.4 tpy	6.00E-0
324 Degreasing	easing	Perchloroethylene		2.825.0	gallyr	4 77E+00		
324 Degreasing	easing	Perchloroethylene	Ork Cork		Unk	1 595.04		
324 Degreasing	easing	Perchloroethylene	Usk		Jok	1.306-1		
329 Degreasing	easing	Perchloroethylene				3.005		
329 Solvent Use	ant Use	Methyl Ethyl Ketone		180.0lgal/mo	oulling	7 205+00	1.9 tpy	4.75E-01
329 Degreasing	easing	Perchloroethylene		10,230.0 gal/vr	al/vr	1 735+04		
329 Carbo	329 Carbon Remover	Methylene Chloride		19,800.0 gal/vr	Jal/vr	6.59F+04		
340 GTC	340 GTCP85-180 Engine Testing	Benzene		1,458.01	1,458.0 test hrs/yr	2.95E-06		
340 GTC	340 GTCP85-180 Engine Testing	Ethylbenzene		1,458.0	1,458.0 test hrs/yr	4.72E-07		
340 GTC	340 GTCP85-180 Engine Testing			1,458.01	1,458.0 test hrs/yr	4.00E-06		
340 GTC	340 GTCP85-180 Engine Testing	Toluene		1,458.01	1,458.0 test hrs/yr	8.66E-07		
340 GTC	340 GTCP85-180 Engine Testing	m,p-Xylene		1,458.01	1,458.0 test hrs/yr	4.65E-07		
340 GTCF	340 GTCP85-180 Engine Testing o-Xylene	o-Xylene		1,458.0	1,458.0 test hrs/yr	6.46E-08		
340 GTC	340 GTCP85-180 Engine Testing	Benzene		1,681.01	1,681.0 test hrs/vr	3.40F-06		
340 GTC	340 GTCP85-180 Engine Testing	Ethylbenzene		1,681.01	1,681.0 test hrs/yr	5.45E-07		
340 GTCF				1,681.01	1,681.0 test hrs/yr	4.61E-06		
340 GTCF	340 GTCP85-180 Engine Testing	Toluene		1,681.01	1,681.0 test hrs/yr	9.99E-07		
340 GTCF	340 GTCP85-180 Engine Testing m.p-Xylene	m,p-Xylene		1,681.0	1,681.0 test hrs/yr	5.36E-07		
340 GTC	340 GTCP85-180 Engine Testing o-Xylene	o-Xylene		1,681.0	1,681.0 test hrs/vr	7 AAE OB		
348 Degreasing								

# Estimated Emissions per year

Charles   Company   Comp	1. Sec. 18. 18.		TOWN TO MAKE THE PARTY OF THE P	SECTION AND SACES		undergradient of the 1970s data	
Methylene Chloride   Unk		Chemical	A STATE OF BRANCH	というできた。		CONTRACTOR OF THE PROPERTY OF	
Perchloroethylene         Unix         2.13E-00           Perchloroethylene         Unix         8.50E+00           Perchloroethylene         Unix         8.50E+00           Perchloroethylene         4.0 gallyr         9.28E+00           Perchloroethylene         5.500.0 gallyr         9.28E+00           Perchloroethylene         5.0 gallyr         5.56E+00           Perchloroethylene         5.0 gallyr         1.50E-02           Perchloroethylene         6.3085.0 gallyr         1.52E+00           Perchloroethylene         6.3085.0 gallyr         1.52E+02           Perchloroethylene         90.200.0 gallyr         1.52E+02           Perchloroethylene         90.200.0 gallyr         1.52E+02           Perchloroethylene         96.250.0 lbs/yr         2.38E+01           Perchloroethylene         1.200.0 gallyr         2.38E+01           Methyl Elbyl Kelone         1.200.0 gallyr         2.38E+01           Methyl Elbyl Kelone         1.500.0 gallyr         2.38E+01           Methyl Elbyl Kelone         1.500.0 gallyr         3.50E+01           Methyl Elbyl Kelone         1.500.0 gallyr         3.50E+01           Methyl Elbyl Kelone         1.500.0 gallyr         3.50E+01           Methylene Chloride <t< td=""><td>348 Carbon Remover</td><td>Γ</td><td>Unk</td><td>Unk</td><td>9 00 5</td><td>The second of the second of th</td><td>Estimated</td></t<>	348 Carbon Remover	Γ	Unk	Unk	9 00 5	The second of th	Estimated
Perchloroethylene   Unk   5,500.0 gallyr   1,500.0 gall	348 Degreasing	Perchloroethylene	Unk	Link	2 425+00		
Perchlocoethylene   Unk   5.500-500   Junk	348 Degreasing		Unk	Unk	8 50E+00		
Perchicostiviene	348 Degreasing	Γ	Usk	1104	0.300		
Toluene	351 Degreasing	Perchloroethylene		oal/w	9.50E+00		
Methyl Ethyl Ketone	360 Paint Area	Toluene	0,000,0	ganyı	9.28E+UU		
Perchiotoethylene	360 Paint Area	Methyl Fihyl Katona	1	gandy	5.Z6E+00		
Perchiocoethylene   50.0 galvino   7.50E-02	360 Degreasing	Perchloroethylene	0.0	gairdy	6.16E+00		
Methyl Ethyl Ketone	360 Machine Shop	Perchloroethylene				5.2 tpy	1.30E+00
Methyl Ethyl Katone	360 Daint Chan	- eichiotoethylerie	20.00	gal/mo	7.50E-02		
Perchloroethylene   63,085.0 gallyr   1,52E+02     Perchloroethylene   90,200.0 gallyr   1,52E+02     Methylene Chloride   90,200.0 gallyr   1,52E+01     Methylene Chloride   1,200.0 gallyr   2,39E+01     Methyl Ethyl Ketone   1,200.0 gallyr   4,0EE+01     Methyl Ethyl Ketone   1,500.0 gallyr   4,0EE+01     Methyl Ethyl Ketone   1,500.0 gallyr   5,67E+01     Methyl Ethyl Ketone   1,650.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   1,650.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   1,650.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   1,600.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   1,200.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   1,200.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   1,000.0 gallyr   3,0EE+01     Methyl Ethyl Ketone   2,000.0 gallyr   3,0EE+02     Methylene Chloride   6,00.0 gallyr   3,0EE+02     Methylene Chloride   6,00.0 gallyr   3,0EE+02     Methyl Ethyl Ketone   2,000.0 gallyr   3,0EE+03     Methyl Ethyl Ketone   2	Sou Paint Shop	Methyl Ethyl Ketone	1,320.0	gal/yr	4.46E+00		
Perchloroethylene	360 Cleaning Line	Perchloroethylene	63,085.0	gal/yr	1.06E+02		
Methylene Chloride	360 Degreasing	Perchloroethylene	90,200.0	gal/vr	1 52E±02		
9g         Perchloroethylene         Unik         3.24E+01           Methyl Ethyl Kelone         3,120.0 gallyr         1,11E+00           Methyl Ethyl Kelone         3,120.0 gallyr         2,30E+00           Methyl Ethyl Kelone         550.0 gallyr         4,05E-01           Methyl Ethyl Kelone         1,200.0 gallyr         4,05E-01           Toluene         1,200.0 gallyr         6,38E-01           Methyl Ethyl Kelone         1,680.0 gallyr         6,38E-01           Methyl Ethyl Kelone         1,680.0 gallyr         3,20E-00           Methyl Ethyl Kelone         4,760.0 gallyr         3,20E-00           Methyl Ethyl Kelone         6,600.0 gallyr         4,35E-01           Methyl Ethyl Kelone         6,600.0 gallyr         2,35E-01           Methyl Ethyl Kelone         6,600.0 gallyr         2,35E-01           Methyl Ethyl Kelone         6,000.0 gallyr         2,35E-01           Methyl Ethyl Kelone         57,000.0 gallyr         2,35E-01           Methylene Chloride         63,500.0 gallyr         2,35E-01           Methyl Ethyl Kelone         30.0 gallyr         2,20E-00           Methyl Ethyl Kelone         2,000.0 gallyr         2,20E-00           Methyl Ethyl Kelone         2,20E-00           Methyl Ethy	360 Cleaning Line	Methylene Chloride	96,250.0	lbs/vr	2 89E+04		
Methyl Ethyl Ketone	360 Chemical Cleaning			Unk	2 245+01		
Methyl Ethyl Ketone	361 Painting	Τ		- Aller	0.44.7		
Methyl Ethyl Ketone	361 Paint	Methyl Ethyl Ketone	0.002,1	garyr	1.11E+00		
Metry/Etry/ Ketone   1,200.0 gal/yr   4,05E-01     Metry/ Etry/ Ketone   1,200.0 gal/yr   4,05E-01     Toluene   1,200.0 gal/yr   4,05E-01     Toluene   1,650.0 gal/yr   6,48E-01     Metry/ Etry/ Ketone   1,650.0 gal/yr   5,67E-01     Metry/ Etry/ Ketone   3,450.0 gal/yr   3,00E+00     Metry/ Etry/ Ketone   4,760.0 gal/yr   2,23E+01     Metry/ Etry/ Ketone   12,000.0 gal/yr   2,30E+01     Metry/ Etry/ Ketone   12,000.0 gal/yr   3,00E+01     Metry/ Etry/ Ketone   12,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   12,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   12,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   285,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   285,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   285,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   280,000.0 gal/yr   3,00E+02     Metry/ Etry/ Ketone   2,00E+02     Metry/ Etry/ Ketone	365 Methylene Chloride Hee	Mothylogo Chloddo	3,120.0	gailyr	2.90E+00		
Methyl Ethyl Ketone	365 Solvent Lice	Methylene Chioride				14.6 tpy	1.46E+01
Toluene	365 Drimer	Metnyl Etnyl Ketone	550.0	gal/mo	2.23E+01		
Tolluene	265 D-1	Metnyl Etnyl Ketone	1,200.0	gal/yr	4.05E-01		
Methyl Ethyl Ketone         1,650.0 gal/yr         5.67E-01           Tollune         1,680.0 gal/yr         5.67E-01           Methyl Ethyl Ketone         1,680.0 gal/yr         3.20E+00           Methyl Ethyl Ketone         4,760.0 gal/yr         4,42E+00           Methyl Ethyl Ketone         12,000.0 gal/yr         2.3E+01           Methyl Ethyl Ketone         12,000.0 gal/yr         4,05E+01           Methyl Ethyl Ketone         57,000.0 gal/yr         9,62E+01           Methylene Chloride         63,140.0 gal/yr         2.95E+01           Methylene Chloride         88,550.0 gal/yr         2.95E+02           Methylene Chloride         88,550.0 gal/yr         2.95E+02           Methylene Chloride         88,550.0 gal/yr         2.95E+02           Methyl Ethyl Ketone         30.0 gal/yr         3.06E+02           Methyl Ethyl Ketone         240.0 gal/yr         2.20E+02           Methyl Ethyl Ketone         240.0 gal/yr         2.20E+00           Methylene Chloride         660.0 gal/yr         2.22E+00           Methylene Chloride         660.0 gal/yr         2.23E+00           Methylene Chloride         660.0 gal/yr         2.23E+00	Soo Filmer	Toluene	1,200.0	gal/yr	6.48E-01		
Methyl Ethyl Ketone         1,680.0 gallyr         5.67E-01           Toluane         1,680.0 gallyr         3.20E+00           Methyl Ethyl Ketone         4,760.0 gallyr         3.20E+00           Methyl Ethyl Ketone         4,760.0 gallyr         2.23E+01           Methyl Ethyl Ketone         12,000.0 gallyr         4,05E+01           Methylene Chloride         65,000.0 gallyr         2,05E+01           Methylene Chloride         83,500.0 gallyr         2,95E+02           Methylene Chloride         88,550.0 gallyr         2,95E+02           Methylene Chloride         88,550.0 gallyr         2,95E+02           Methylene Chloride         88,550.0 gallyr         9,49E+02           Methylene Chloride         285,000.0 gallyr         9,24E-03           Methylene Chloride         86,500.0 gallyr         9,24E-03           Methylene Chloride         240.0 gallyr         9,24E-03           Methyl Ethyl Ketone         240.0 gallyr         2,20E+00           Methylene Chloride         660.0 gallyr         2,20E+00           Methylene Chloride         660.0 gallyr         2,23E+02	365 Solvent Use	Methyl Ethyl Ketone	1,650.0	gal/mo	6.59E+01		
Toluene	365 Primer	Methyl Ethyl Ketone	1.680.0	gal/vr	5 67E-04		
Methyl Ethyl Ketone         3,450.0 gallyr         3,000           Methyl Ethyl Ketone         4,760.0 gallyr         4,42E+00           Methyl Ethyl Ketone         12,000.0 gallyr         4,05E+01           Methyl Ethyl Ketone         12,000.0 gallyr         5,05E+01           Perchloroethylene         57,000.0 gallyr         2,10E+02           Methylene Chloride         63,140.0 gallyr         2,95E+01           Methylene Chloride         88,550.0 gallyr         2,95E+02           Methylene Chloride         88,550.0 gallyr         9,49E+02           Methyl Ethyl Ketone         30.0 gallyr         9,49E+02           Methyl Ethyl Ketone         30.0 gallyr         9,24E-03           Methyl Ethyl Ketone         240.0 gallyr         9,24E-03           Methyl Ethyl Ketone         240.0 gallyr         2,20E+00           Methyl Ethyl Ketone         55.0 gallyr         2,23E+00           Methyl Ethyl Ketone         55.0 gallyr         2,23E+00	365 Primer	Toluene	1.680.0	gal/vr	0.075.04		
Methyl Ethyl Ketone         4,760.0 gallyr         4,2E+00           Methyl Ethyl Ketone         6,600.0 gallyr         2,23E+01           Methyl Ethyl Ketone         12,000.0 gallyr         4,05E+01           Methyl Ethyl Ketone         12,000.0 gallyr         1,15E+01           Perchloroethylene         57,000.0 gallyr         2,05E+02           Methylene Chloride         63,140.0 gallyr         2,05E+02           Methylene Chloride         88,550.0 gallyr         2,05E+02           Methylene Chloride         285,000.0 gallyr         2,05E+02           Methyl Ethyl Ketone         30.0 gallyr         9,49E+02           Toluene         30.0 gallyr         9,24E-03           Methyl Ethyl Ketone         22,00 gallyr         2,20E+02           Methyl Ethyl Ketone         240.0 gallyr         2,20E+03           Methyl Ethyl Ketone         660.0 gallyr         2,20E+03           Methyl Ethyl Ketone         55.0 gallyr         2,23E+00	365 Paint	Methyl Ethyl Ketone	3 450 0	gallyr	2.01.00		
Methyl Ethyl Ketone         6,600,0 gallyr         2,23E+01           Methyl Ethyl Ketone         12,000,0 gallyr         4,05E+01           Methyl Ethyl Ketone         12,000,0 gallyr         1,15E+01           Perchloroethylene         57,000,0 gallyr         9,62E+01           Methylene Chloride         88,550,0 gallyr         2,95E+02           Methylene Chloride         285,000,0 gallyr         2,95E+02           Methyl Ethyl Ketone         30,0 gallyr         3,49E+02           Methyl Ethyl Ketone         30,0 gallyr         1,01E-01           Zinc Chromate Primer         132,0 gallyr         9,24E-03           Methyl Ethyl Ketone         660,0 gallyr         2,20E+00           Perchloroethylene         660,0 gallyr         2,20E+00           Methyl Ethyl Ketone         55,0 gallyr         2,23E+00	365 Paint	Methyl Ethyl Ketone	4 760 O	garyi	3.20=+00		
Methyl Ethyl Ketone         0,000.0 gallyr         2.23E+01           Methyl Ethyl Ketone         12,000.0 gallyr         4.05E+01           Perchloroethylene         57,000.0 gallyr         9,62E+01           Methylene Chloride         63,140.0 gallyr         2.95E+02           Methylene Chloride         88,550.0 gallyr         2.95E+02           Methylene Chloride         285,000.0 gallyr         2.95E+02           Methyl Ethyl Ketone         30.0 gallyr         9,49E+02           Methyl Ethyl Ketone         30.0 gallyr         9,24E-03           Methylene Chloride         660.0 gallyr         2,20E+00           Methylene Chloride         660.0 gallyr         2,20E+00           Methylene Chloride         660.0 gallyr         2,20E+00           Methyl Ethyl Ketone         55.0 gallyr         2,23E+00	365 Solvent Use	Mathyl Ethyl Kotono	4,700.0	ganyr	4.42E+00		
Methyl Ethyl Ketone         12,000.0 gallyr         4.05E+01           Methyl Ethyl Ketone         12,400.0 gallyr         1.15E+01           Methylene Chloride         63,140.0 gallyr         2.05E+02           Methylene Chloride         88,550.0 gallyr         2.95E+02           Methylene Chloride         285,000.0 gallyr         9.49E+02           Methyl Ethyl Ketone         30.0 gallyr         9.49E+02           Methyl Ethyl Ketone         240.0 gallyr         9.24E-03           Methylene Chloride         660.0 gallyr         9.24E-03           Methylene Chloride         660.0 gallyr         2.20E+00           Methylene Chloride         660.0 gallyr         2.20E+00           Methyl Ethyl Ketone         55.0 gallyr         2.23E+00	365 Solvent Lee	Methyl Eurly Natone	0,000,0	gallyr	2.23E+01		
Methylene Chloride         12,400.0 gallyr         1.15E+01           Perchloroethylene Chloride         57,000.0 gallyr         9.62E+01           Methylene Chloride         63,140.0 gallyr         2.95E+02           Methylene Chloride         285,000.0 gallyr         9.49E+02           Methyl Ethyl Ketone         30.0 gallyr         9.49E+02           Methyl Ethyl Ketone         30.0 gallyr         1.01E-01           Zinc Chromate Primer         132.0 gallyr         9.24E-03           Methyl Ethyl Ketone         660.0 gallyr         2.20E+00           Perchloroethylene         660.0 gallyr         2.20E+00           Methyl Ethyl Ketone         55.0 gallyr         2.23E+00	365 Deinting	Metnyl Etnyl Ketone	12,000.0	gal/yr	4.05E+01		
Perchloroethylene         57,000.0 gallyr         9.62E+01           Meltylene Chloride         63,140.0 gallyr         2.10E+02           Meltylene Chloride         88,550.0 gallyr         2.95E+02           Meltylene Chloride         285,000.0 gallyr         9.49E+02           Meltyl Ethyl Ketone         30.0 gallyr         1.01E-01           Zinc Chromate Primer         132.0 gallyr         9.24E-03           Meltyl Ethyl Ketone         660.0 gallyr         2.20E+00           Perchloroethylene         660.0 gallyr         2.20E+00           Meltyl Ethyl Ketone         55.0 gallyr         2.23E+00	Soor raining	Methyl Ethyl Ketone	12,400.0	gai/yr	1.15E+01		
Methylene Chloride         63,140.0 gallyr         2.10E+02           Methylene Chloride         88,550.0 gallyr         2.95E+02           Methylene Chloride         285,000.0 gallyr         9.49E+02           Methyl Ethyl Ketone         30.0 gallyr         1.01E-01           Zinc Chromate Primer         132.0 gallyr         9.24E-03           Methyl Ethyl Ketone         660.0 gallyr         2.20E+00           Perchloroethylene         660.0 gallyr         2.20E+00           Methyl Ethyl Ketone         55.0 gallmo         2.23E+00	300 Degreasing	Perchloroethylene	57,000.0	gal/yr	9.62E+01		
Methylene Chloride         88,550.0 gal/yr         2.95E+02           Methylene Chloride         285,000.0 gal/yr         9.49E+02           Methyl Ethyl Ketone         30.0 gal/yr         1.01E-01           Zinc Chromate Primer         132.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         660.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         660.0 gal/yr         2.20E+00           Perchloroethylene         660.0 gal/yr         2.20E+00           Methyl Ethyl Ketone         55.0 gal/mo         2.23E+00	redding Stripper	Methylene Chloride	63,140.0	gal/yr	2.10E+02		
Methyl Ethyl Ketone         285,000.0 gal/yr         9.49E+02           Methyl Ethyl Ketone         30.0 gal/yr         1.01E-01           Zinc Chromate Primer         132.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         240.0 gal/yr         8.10E-01           Methyl Ethyl Ketone         660.0 gal/yr         2.20E+00           Methyl Ethyl Ketone         55.0 gal/mo         2.23E+00	365 Phenolic Stripper	Methylene Chloride	88,550.0	gal/yr	2.95E+02		
Methyl Ethyl Ketone         30.0 gal/yr         1.01E-01           Toluene         30.0 gal/yr         1.01E-01           Zinc Chromate Primer         132.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         240.0 gal/yr         8.10E-01           Perchloroethylene         660.0 gal/yr         2.20E+00           Methyl Ethyl Ketone         55.0 gal/mo         2.23E+00	365 Phenolic Stripper	Methylene Chloride	285,000.0	gal/yr	9.49E+02		•
Toluene         30.0 gal/yr         1.01E-01           Zinc Chromate Primer         132.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         240.0 gal/yr         8.10E-01           Methylene Chloride         660.0 gal/yr         2.20E+00           Perchloroethylene         660.0 gal/yr         2.20E+00           Methyl Ethyl Ketone         55.0 gal/mo         2.23E+00	366 Thinning Solvent	Methyl Ethyl Ketone				10,7	
Methyl Ethyl Ketone         30.0 gal/yr         1.01E-01           Zinc Chromate Primer         132.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         240.0 gal/yr         8.10E-01           Methylene Chloride         660.0 gal/yr         2.20E+00           Methyl Ethyl Ketone         55.0 gal/mo         2.23E+00	366 Solvent Use	Toluene				L'othy	1.00E+00
Zinc Chromate Primer         132.0 gal/yr         9.24E-03           Methyl Ethyl Ketone         240.0 gal/yr         8.10E-01           Methyl Ethyl Ketone         660.0 gal/yr         2.20E+00           Methyl Ethyl Ketone         55.0 gal/mo         2.23E+00	366 Solvent Use	Methyl Ethyl Ketone	30.0	gallyr	4 04 5 04	Z.1 tby	2.10E+00
Methyl Ethyl Ketone	366 Painting	Zinc Chromate Primer	132.0	Salve	10-110-1		
Methyl Ethyl Ketone   55.0 gal/mo   2.23E+00	366 Solvent Use	Methyl Ethyl Ketone	240.0	le de la constante de la const	9.246-03		
Methyl Ethyl Ketone 55.0 gal/mo 2.23E+00	366 Phenolic Stripper	Methylene Chloride	960	oal/w	0.105-01		
Methyl Ethyl Ketone 55.0 gal/mo 2.23E+00	375 Degreasing	Perchloroethylene			Z.ZUETUU		
Methyl Ethyl Ketone 55.0 gal/mo 2.23E+00	375 Thinning Solvent	Methyl Ethyl Ketone				1.6 tpy	4.00E-01
Derrhomethic	375 Solvent Use	Methyl Ethyl Ketone	55.0	gal/mo	2 225+00	z.ytpy	2.00E+00
	375 Degreasing	Perchloroethylene	110	02/100	4.435.400		

37. 37.		İ	1980s data transferrence	かっていたいはないはいはいないというできる	1000では、1	
37		-	Paragradus age were processed units spessed	· Estimated	I sane	
37	375 Solvent Use	Methyl Ethyl Ketone	-			Estimated
3/	375 Phenolic Stripper	Methylene Chloride	5,000.0 gal/yr	1 R7E+01		
20	75 Phenolic Stripper	Methylene Chloride	24,710.0 gal/yr	8.23E+01	• .	
ŏ c	Soo Methylene Chloride Use	Methylene Chloride			9.3 fav	100
300	SS Solvent Use	Methyl Ethyl Ketone	5,000.0 gal/yr	1.69E+01	Adv love	9.30E+00
Š Š	Soo Prienolic Stripper	Methylene Chloride	11,500.0 gal/yr	3.83E+01		
5	Ses Prienolic Stripper	Methylene Chloride	24,000.0 gal/yr	7.99E+01		
× 1	385 Phenolic Stripper	Methylene Chloride	41,250.0 gal/yr	1.37E+02		
36	385 Phenolic Stripper	Methylene Chloride	70.525.0lgal/vr	2017101		
116	1155 NDI	Perchloroethylene	60 0 oallyr	70.205.407		
142	1420 Solvent Use	Toluene	30,000	4.05E-01		
142	1420 Solvent Use	Methyl Ethyl Ketone	4.0 galwa	3.74E-01		
300 Area	Degreasing	Perchloroethylene	1.0 gaiwn	7.02E-01		
655 Area	TF-39 Jet Engine Testing	Benzene	64.0		21.5 tpy	5.38E+00
655 Area	TF-39 Jet Engine Testing	Ethylhenzene	01.0 (65) 1115/9	1.58E-05		
655 Area	TF-39 Jet Engine Testing	Formaldehyde	61.0 test hrs/yr	8.83E-07		
655 Area	TF-39 Jet Engine Testing	Mothyl Ethyl Kotono	O I.O IEST DIS/yr	6.27E-05		
655 Area	TF-39 Jet Engine Testing	Tolinga	61.0 test hrs/yr	1.63E-06		
655 Area	TF-39 Jet Engine Testing	m n-Xviene	01.0 (65) (115) yr	5.65E-06		
655 Area	TF-39 Jet Engine Testing	o-Xvlene	o i.u test nrs/yr	1.68E-06		
655 Area	TF-39 let Engine Testing	Bonzon	61.0 test hrs/yr	8.83E-07		
655 Area	TF-39 let Engine Testing	Ethylborono	120.0 test hrs/yr	3.10E-02		
655 Area	TF-39 let Engine Tectino	Formaldahuda	120.0 test hrs/yr	1.74E-02		
655 Area	TF-39 Jet Engine Testing	Mothyl Ethyl Kotono	120.0 test hrs/yr	1.23E-01		
655 Area	TF-39 Jet Engine Testing	Tolings Curyi Natoria	120.0 test hrs/yr	3.21E-02		
655 Area	TF-39 let Engine Testing	The Video	120.0 test hrs/yr	1.11E-02		
655 Area	TE-39 let Engine Testing	O Videna	120.0 test hrs/yr	3.30E-03		
655 Area	T-56 let Finding Testing	Ronzono	120.0 test hrs/yr	1.74E-03		
655 Area	T-56 Jet Engine Testing	Fihulbonson	483.0 test hrs/yr	8.32E-07		
655 Area	T-56 Jet Engine Testing	Formaldobydo	483.0 test hrs/yr	1.08E-07		
655 Area	T-56 Jet Engine Testing	Methyl Ethyl Kotono	483.U lest hrs/yr	7.19E-06		
655 Area	T-56 Jet Engine Testing	Tolliene	463.0 test nrs/yr	2.33E-08		
655 Area	T-56 Jet Fnoine Testing	Supply of the	463.U test nrs/yr	4.74E-07		
655 Area	T-56 let Engine Testing	o Video	483.0 test hrs/yr	5.44E-07		
655 Area	T-56 let Engine Testing	O-Aylerie	483.0 test hrs/yr	6.56E-08		
655 Area	T-56 for Engine Testing	Denzene	540.0 test hrs/yr	9.30E-03		
655 Area	T-56 lot Engine Testing	Emylbenzene	540.0 test hrs/yr	1.215-04		
655 Area	T 66 tot Engine Testing	Formaldenyde	540.0 test hrs/yr	8.30E-03		
655 Area	T 56 1-15	Metnyl Ethyl Ketone	540.0 test hrs/yr	2.60E-05		
655 Area	T 50 Jet Engine Testing	loluene	540.0 test hrs/yr	5.30E-04		
655 Area		m,p-Xylene	540.0 test hrs/yr	6.08E-05		
Die seried	1-50 Jet Engine Lesting	o-Xylene	540.0 test hrs/yr	6.26E-05		
Oil. of maint	Degreasing	Perchloroethylene	96,000.0 gal/yr	1.62E+02		

# Estimated Emissions per year

MENERAL MANAGEMENT OF THE SECOND OF THE SECO	A STATE OF THE S			
Estimated	E SOFTO	2,002+0	0.70570	7.94E+0
Thinking the second sugarity Units second	15.552.0 dal/vr	26.016.0 gallyr	150 516 Coallyr	238,291.0 gallyr
会     子で   Chemical 和	Toluene	Methyl Ethyl Ketone	Perchloroethylene	Methylene Chloride
Manual Description	Solvent Use	Solvent Use	Degreasing	Phenolic Stripper
Building	Unk	Unk	Unk	Unk

ated	Emissions Ur	Units
Perchloroethylene	1.49E+03 T/yr	×
Chromium +6	4.00E-02	
Chromic Acid	2.73E+04 T/yr	×
Methyl Ethyl Ketone	3.05E+02 T/	×
Methylene Chloride	2.94E+03 T/yr	×
Benzene	4.03E-02	
Ethyl Benzene	1.75E-02 T/yr	×
Formaldehyde	1.31E-01	
Toluene	1.16E-02 T/yr	۲۲
Xylenes	5.17E-03 T/yr	<u></u>

CK ST	as carbon aloms	as carbon atoms	as formaldehyde	as carbon atoms	as carbon atoms	as formaldehyde	as carbon atoms	as carbon atoms	as formaldehyde
Controls He									
Emissions In the mount	2.60E+00	2.70E+00	4.00E-01	7.00E-01	3.00E-01	3.00E-01	4.36E+01	1.19E+01	7.80E+00
Hours of Operation									
Days of S									
Emissions F ((py))			10			50		_	
Poliutant	Olefins	Aromatics	Total Aldehydes	Olefins	Aromatics	I otal Aldehydes	Olefins	Aromatics	l otal Ardenydes
on Original Park									
nesty dues				-					
il) O A Cost I Cost									
The Description of the Control of th			T CO Carlos at 1	and an		TF-33 Engine at idle			
A STATE OF S									Notes:

1. This data is from actual testing data but it did not speciate aromatics, and aldehydes. Since testing hours were not provided, further emission calculations could not be performed.

2. It is assumed the aromatics includes benzene, toluene, xylenes, and ethylbenzene

It is assumed that total aldehydes includes formaldehyde.
 Emissions are in ibs per hour, however, it is not known if this is per year, or per operational hours.

Page 5

		_	_		-	_	-	_	-	-	٠,	_	-
End Comments	hulding height setimate	huilding height estimate	Danoung Height collinate										S)
Stack/ Bldg/ Helght (feet)	20 (R)	20 (B)	1104	É	(D) (B)	(0) (0	10, 1	41.7 (6)	(B) 6.011	30 (5)	A/A	53.3 (5)	57.6 (B) 30 (S)
Controls													5
Emissions In Ibs/hour of operations	4.97E-01	3.37E-01	2 02F+00	9 62E-01	9 62F-01	1 02E-01	4 000 04	7 005 000	4475.00	2505.00	2.30C.+00	4 025 04	4.17E-01
Hours of Hours of Operation (hrs/day)	24	24	8	,	16	!	24	46	2 4	9	200	5	24
PER EN LES DE LE	5	2	2		2		P		, 4	, "	, .	<b>,</b>	5
Emissions ((py) 33	1.55E+00	1.05E+00	2.10E+00	1.00E+00	2.00E+00	4.00E-01	4 75E.01	1 46E+01	9 30E+00	5 38E +00	2 DOF +00	6.00F-01	1.30E+00
Pollutini	Perchloroethylene	Perchloroethylene	Toluene Degreasing	Methyl Ethyl Ketone	Methyl Ethyl Ketone	Perchloroethylene	Perchloroethylene	Methylene Chloride	Methylene Chloride	Perchloroethylene	Methyl Ethyl Ketone	Perchloroethylene	Perchloroethylene
Units	tpy	ţ	tpy	φ	è	ó	à	È	Š	è	è	ç ç	tpy
Special States	6.2	4.2	2.1	1.0	2.0	1.6	6.	14.6	9.3	21.5	2.0	2.4	5.2
Density (Ib/gal)	13.5	13.5	7.2	6.75	6.75	13.5	13.5	11.1	11.1	13.5	6.75	13.5	13.5
	Perchloroethylene	Perchloroethylene	Toluene Degreasing	Thinning Solvent	Thinning Solvent	Perchloroethylene	Perchloroethylene	Methylene Chloride	Methylene Chloride	Perchloroethylene	Thinning Solvent	Perchloroethylene	Perchloroethylene
Emis	Š	ş	34		25		26	28	53	30	36		æ
# Bpig	258	259	366		375		329	365	385	300 Area	324		360

30

Notes:

1. Data was taken directly from the Texas Air Control Board questionnaire and cross-checked with the APSIS computer print out, which accounts for the rounding.

2. 100% volatization was assumed for all organic solvent use, 25% volatifization was used for degreasing.

3. Hours of operation, if not listed in the original documentation are assumed to be 24 hours per day, 5 days per week,

4. Equations taken from IERA AEI Guidance document, reference number 1.

		_
	Comments (1)	Original information from 1978 Carbon Adsorber 30.5 (S) survey
	Bidg/ Stack Height (feet)	30.5 (S)
	Controls	Carbon Adsorber None
	Emissions in Ibs/hour of Operation	2.63E-01 4.33E-03
	Hours of Operation (hus/day)	16 16
	Days of Operation (days/week)	so so
r Survey	1976 Emissions	5.48E-01 9.00E-03
Source: 1978 Carbon Adsorber Survey	Port Park	Perchloroethylene Methylene Chloride (60%)
1978	Unite Unite	<b>5</b> 5
Source:	Appuro A	Cak
	(F) Density (Iboaily	13.5
		Perchloroethylene Carbon Remover
	A Consciption Constitution Cons	Permit for Aircraft Engine Fuel Accessories Repair/Test Shop
		7
		348

Confidence Level: Meduim based on uncertainty of stack height for 1978.

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Source: "Inventory Data: 1988" Folder  Total Control C
Days of Hours of Emissions In Controls   Operation
Days of Hours of Emissions In Operation (days week) (husday) operation (days week) (husday) operation 6 5 24 6 000 000
Days of Hours of Operation Operation (days/week) (hracical)
988 Folder  1986   Folder  1986   Paris of Hours
1 1 SEF 01
988" Folder
988
entory Data: 15
"Inven
9 3 3
Source Country E. Used
Table 135
Perchooeltylene
Constitution (* Vapor Degressing
P. E. L.
BIAGO P

Confidence Level: Medium due to lack of emission points and stack height.

# Source: "Air Emissions Inventory CY 89" Folder

				300	. AI	China	Source. All Ellissions inventory of 69 Folder	207 707	der					
9		Description (1)						11, 11, 11, 11, 11, 11, 11, 11, 11, 11,	(daystweek)	Hours of Operation	The first of the four of the f	Controls	Stack Height (feet)	
	_													Original information from
Maintenance of 11.4	-	Circum County	_											"Air Emissions Inventory
Pellici el los	š	vapor begreasing	Perchloroethylene	13.5	13.5 96,000.0 galfyr	galfyr	Perchloroethylene	1.62E+02	'n	24	5.19E+01	S	×	CY89* folder

Confidence Level: Medium based on no building number, and assumed hours of operation.

1. 100% volatization was assumed for all organic solvent use and 25% volatilization was assumed for vapor degreasing.

- Hours of operation, if not listed in the original documentation are assumed to be 24 hours per day, 5 days per week.
   1989 data is from the Directorate of Maintenance and is a compilation of all maintenance shops (300 Ans).
   For 1978 data, assumed that original information assumed 60% methylene chloride in the carbon remover. This information was collected from an Material Safety Data Sheet (MSDS) for carbon remover.
   Equations taken from AEI Guidance document, reference number 1

Source: "Air Emission Inventory - 1980" found in "Tab F - Miscellaneous 1982 Emission Inventory 13H2 - Air Pollution Studies."

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Confidence Level: Medium based on assumed hours of operation and lack of emission points.

<sup>1. 100%</sup> volatization was assumed for all organic solvent use, 25% volatization was assumed for degreasing.

<sup>2.</sup> Hours of operation, if not listed in the original documentation are assumed to be 24 hours per day, 5 days per week.

<sup>3.</sup> Chromic acid emissions are estimated based on documentation from a plating shop survey, and include accomodations for a 25% loss of the chromic acid. Data was reported in grams per day and pounds per day and converted to tons per year and pounds per hour (based on 24 hours per day operation). All chromium is assumed hexavalent.

<sup>4.</sup> A concentration of 60% methylene chloride was assumed for all phenolic stripper, based on information from the MSDS.

<sup>5.</sup> Equations taken from IERA AEI Guidance document, reference number 1

Source: "Air Pollution Emission Inventory, Kelly Air Force Base, Calendar Year 1982" Performed by Bioenvironmental Engineering

	_	_			_	-			_	_					_				
Comments				See note 3							. See note 3								
Bidg/ Stack Height (feet)	Unk							Cnk							N/N	4/2	N.	( N	14/11
Bidg/ Stack Controls Height Used (feet)	None							None							None	None	None	ou o	2000
Emissions in Ibs/hour of operation	5.17E-01	2.90E-01	2.06E+00	5.34E-01	1.85E-01	5.50E-02	2.90E-02	3.45E-02	4.49E-04	2.98E-02	9.63E-05	1.96E-03	2.25E-04	2.32E-04	8.14E+01	2.81E+01	1.79E+01	2.54F+02	
Hours of Operation (hreiday)	120 hrs/yr							540 hrs/yr							24	24	54	24	
ಿ ರಿತ	N/A							A/N							5	S	S	S	
(1982) (1982) (1982) (1982) (1983)	3.10E-02	1.74E-02	1.23E-01	3.21E-02	1.11E-02	3.30E-03	1.74E-03	9.30E-03	1.21E-04	8.03E-03	2.60E-05	5.30E-04	6.08E-05	6.26E-05	2.54E+02	8.78E+01	5.60E+01	7.94E+02	
	Benzene	Ethylbenzene	Formaldehyde	Methyl Ethyl Ketone	Toluene	m.p-Xylene	o-Xylene	Benzene	Ethylbenzene	Formaldehyde	Methyl Ethyl Ketone	Toluene	m,p-Xylene	o-Xylene	150,516.0 gal/yr Perchloroethylene (100%)	26,016.0 gal/yr Methyl Ethyl Ketone (100%)	Toluene (100%)	Methylene Chloride (60%)	
	₹ Ž							Ϋ́							)al/yr	allyr	allyr	allyr	١
Charles - Carrie	۷ ۷							N/A							150,516.0	26,016.0	15,552.0 gallyr	238,291.0 galfyr	
Openity (Ib/gal)															13.5	6.75	7.2	1.1	
Material Used :															Perchloroethylene	MEK	Toluene	Paint Remover and Stripper	
TE-30	600							96-							Solvent Usage				
A B A																			
Bidg #	222 7468														Ϋ́Z	ď.	¥ Ž	N/A	Madan

100% volatization was assumed for all organic solvent use, 25% volatization was assumed for degreasing.

2. Hours of operation, if not listed in the original documentation are assumed to be 24 hours per day, 5 days per week.

3. For the TF-39 engine, fuel flow is 1,448 lbs of fuelthour and for the T-56, the flow is 724 lbs of fuelthour (Reference number 1). Emission factors (in lbs piolutant/1000 lbs fuel) for each chemical can be found in the IERA AEI Guidance document (Reference number 1). Also, a 60 minute test time at idle was assumed for incomplete combustion. No emission factors are available for the T-56 engine for ethylbenzene, foluene, and o-xylene at the idle setting, so factors for the approach setting were

4. Emission factors and fuel flow factors are for JP-8 and not JP-4. Speciation information does not exist for JP-4.

5. Equations taken from AEI Guidance document, reference number 1

Confidence Level: Medium based on assumed hours of operation, lack of building numbers, and emission point data.

Source: "TACB Air Emissions Inventory, Accomp. 1985 for 1984."

,,,, * : I		_	-	7	-		Т	_					_		_	T £	-					_	_
	Emissions are in tpy from original	III OHII AROLI					Emissions are	estimated according to	original report. It is	assumed that the	controls used					Assume total is for both	stacks	C DUR 1,1, BUILD					
Stack/ Bldg Height (feet)	(a) (g	(0)		87 (B)			36 (S)	36 (S)	36 (S)	36 (S)	36 (S)	36 (S)	36 (S)	36 (S)	30 (S)	25 (S)	_	(0) 07					
Controls	e con	all land		None			Scrubbers								None	None	Mone	9					
Hours of Emissions Operation in Instrum (hreday) of operation	4 R6F-01	1000		1.78E+00	8.00E+00	1.78E+00	9.16E-04	1.40E-03	9.16E-04	1.40E-03	1.40E-03	1.40E-03	9.16E-04	1.40E-03	3.46E+00	4.87E+01	A OSE OF	6.48F-07	5.48F-06	N/A	1.19E-06	6.37E-07	00 0000
Hours of Operation (Ins/day)	24			16	16	16	24	22	24	22	22	22	24	22	18	16	1458 hrefur						
Days of Deration (days/week)	7			5	50	S	7	ıo	7	5	S	S	7	5	5	2	A/A		,				
1984 Emissions (tpy)	2.13E+00	2.95E+02	4.05E+01	3.71E+00	1.67E+01	3.71E+00	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03	8.10E+00	1.01E+02	2.95F-06	4.72E-07	4.00E-06	N/A	8.66E-07	4.65E-07	6 46F-08
wenied ***	Perchloroethylene (100%)	Methylene Chloride (60%)	Methyl Ethyl Ketone (100%)	Methyl Ethyl Ketone (100%)	Methylene Chloride (60%)	Methyl Ethyl Ketone (100%)	Hexavalent Chromium								Perchloroethylene (100%)	Perchloroethylene (100%)	Benzene	Ethylbenzene	Formaldehyde	Methyl Ethyl Ketone	Toluene	m,p Xylene	0-Xvlene
Uniffs	¥.	gal/yr	gal/yr	gallyr	gat/yr	gal/yr								1	gal/yr	gal/yr	gal/yr						
Quantity	N/A	88,550	12,000	1,100	2,000	1,100	See note 9								4,800	000'09	96,000						
Density ((b/gal)	13.5	11.1	6.75	6.75	11.	6.75	<u> </u>								13.5	13.5	6.5						
Material Used 1.	Perchloroethylena	Phenolic Paint Stripper	Methyl Ethyl Ketone	Methyl Ethyl Ketone	Phenolic Paint Stripper	Methyl Ethyl Ketone	Chromic Acid			-					reichioroeuryiene	reconoroemylene	JP-4						
. (₹ Description ( ) ( )	Vapor Degreaser			Stripping and Cleaning			Plating Shop							Chemical Cleaning			GTE Test Cells						
Pr Bris	^	100			7 .			8 6	3 8	3 5	5 %	3 8	3 2	S S	3	45	48						
B109	348	365		375			S										340						

Confidence Level: Medium based on assumed hours of operation, emission point data, and lack of jet engine test cell emission factors.

Source: "TACB Air Emissions Inventory, Accomp. 1985 for 1984."

	D. Ford	****	Т	_	_	_	_	_
		Comments						
	Stack/ Bldg Height	(feet)	30 /51	(5) 65	14.8 (B)	20 (S)	57.6 (B	30(8)
	Controls	Deed	None			None		None
	Femissions	of operation	1.84E+01	1		3.89E-01		2.14E+00 None
	Hours of Deration In	(hrs/day)	16			8	. 5	10
100 100	Days of Operation	(ndystweek)	ĸ			5		n
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fmissions	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.83E+01	1 69F+01		4.05E-01	4 465 400	4.400+00
Control of the Contro	The state of the s		Methylene Chloride (60%)	5,000 galfyr Methyl Ethyl Ketone (100%)	(2)	Perchloroethylene (100%)	320 native Methyl Ethyl Ketone (100%)	monification resource (100 %)
:0::0:			11,500 gal/yr	gallvr		ganyr	nal/vr	2
219 C. C.	Quantity	3.6				00		
"如何,多人是	Density (Ib/gal)		11.1	6.75	436	13.3	6.75	
を建設に使ぶたける事業をはずるいと	· Control of the con	The state of the s	Friendlic Paint Stripper	Methyl Ethyl Ketone	Perchlomethylene	or an	Methyl Ethyl Ketone	
THE PROPERTY OF THE PROPERTY OF	in Description b	2005 CO Doint Chaming			1155 61 Non Destructive Inso.		360 70 Paint Shop	
1.4.4.E	, E. E	5	3		61		2	I
10000	Bldg.	305	3		1155		360	
-		_	_	-	_	_	_	

Notes:

1. Building 340 tested a number of small gas-turbine angines (GTE). All of the model engines were listed, but the only model that Earth Tech could find an emission factor for was the GTCP85-180. All engines were assumed to be GTCP85-180 for the

2. 100% volatization was assumed for all organic solvent use, 25% volatization was assumed for degreasing.

3. Hours of operation, if not listed in the original documentation are assumed to be 24 hours per day, 5 days per week.

4. Emission factors and fuel flow factors are for JP-8 and not JP-4. Documentation for JP-4 does not exist.

5. For the GTCP 85-180 engine, fuel flow is 270 lbs of fuel/hour (Reference number 1). Emission factors (in lbs pollutant/1000 lbs fuel) for each chemical can be found in the IERA AEI Guidance document (Reference number 1). Also, a 60 minute test time at Idle was assumed for incomplete combustion. No emission factors were available for Methyl Edone.

6. A concentration of 60% methylene chloride was assumed for all phenolic stripper.

7. It is assumed that all hard and decroative electroplating was accounted for, as well as anodizing. It is also assumed that the estimates take into controls (If any) used.

8. Equations taken from AEI Guidance document, reference number 1.

Confidence Level: Medium based on assumed hours of operation, emission point data, and lack of jet engine test cell emission factors.

Source: "Air Inventory: CY 1985" and "Air Emissions Inventory 1985"

	100	is u	,		_			_	9			T		T	_		_			_	Τ							Г
		Spe notes 1.4 and F.	ning 't' and						Assume similar						see notes 4 and 5													
	Stack Height feet	S (2) 00		-					ASS Drog	(2)	ž		(B) 2.601	- 1	996 (5) 02	_					50.28 (B)	for 652	51.17 (8)	for 655	20(S)	for both		14.83 (B)
	Controls	None	2						l Jak		ş		1	Mong	2006						None 5	_	5			_		-
İ	Emissions in Ibshour	4 05F-06	6.48E-07	5.48E-06	N/A	1.19E-06	6.37E-07	8.86E-08	3.27E+00	2.70E+02	5.10E+00	001,139	2.535+00	3 455.06	4 48E-07	2.98E-05	9.63E-08	1.96E-06	2.25E-06	2.34E-07	5.17E-04	2.90E-05	2.06E-03	5.34E-05	1.85E-04	5.50E-05	2.90E-05	7.53E+01
	Hours of Emissions Operation In Ibshour	1681 Frs/vr							7032 hrs/yr	7032 hrs/yr	24	1440 hoshu	24 0113/91	483 hrefur	100						61 hrs/yr							24
	Days of Operation										ĸ		u u															5
	Emissions Operation (days.week)	3.40E-06	5.45E-07	4.61E-06	N/A	9.99E-07	5.36E-07	7.44E-08	1.15E+01	9.49E+02	2.23E+01	1 115+00	8 23E+01	8.32F-07	1.08E-07	7.19E-06	2.33E-08	4.74E-07	5.44E-07	5.65E-08	1.58E-05	8.83E-07	6.27E-05	1.63E-06	5.65E-06	1.68E-06	8.83E-07	2.35E+02
			eue	yde	Ketone	•	e e	d)	ne (27.5%)	ide (60%)	ne (100%)	(27.5) Aut	de (60%)		ane	yde	cetone		9			au au	,de	etone				de (60%)
* ****	Pollutant	Benzene	Ethylbenzene	Formaldehyde	Methyl Ethyl Ketone	Toluene	m.p-Xylene	o-Xylene	Methyl Ethyl Ketone (27.5%)	Methylene Chloride (60%)	Methyl Ethyl Ketone (100%)	Methyl Ethyl Ketone (27.5)	Methylene Chloride (60%)	Benzene	Ethylbenzene	Formaldehyde	Methyl Ethyl Ketone	Toluene	m,p-Xylene	o-Xylene	Benzene	Ethylbenzene	Formaldehyde	Methyl Ethyl Ketone	Toluene	m,p-Xylene	o-Xylene	Methylene Chloride (60%)
- 40	<b>1 1 1 1 1 1 1 1 1 1</b>	)al/yr	_			_		1	gal/yr	gal/yr	gallyr			-	_					1					_		_	
2 34340 4 3	Quantity	115,000 gallyr							12,400	285,000 g	6,600 9	1,200 galfyr	24.710	Sec.				•			ž	•					102.01	70,525 gallyr
	Density (lb/gal)	6.5					,		6.75	1.	6.75	6.75	1.1	6.5				•			6.5						†	11
Control to the second of the s	Material Used								Methyl Ethyl Ketone	Methylene Chloride	Methyl Ethyl Ketone	Methyl Ethyl Ketone	Methylene Chloride														Daint Stripper	anibber
	12	JP 4						1	Met	Met	Met		Meth	₽ <sub>P</sub>							7						Died	T all
A Section of the Sect	s Vice Scription	GTE Test Cells							Painting	Paint Stripping	MEK Use	Painting (C-130 only)	Paint Stripping	Test Cells T-56						Toet Celle TE 30	Con Collo II - Co						Wash Rack	
3	Emis Pt#	48						$\downarrow$												1							1	
4.5	Bldg #	340		_			_		365			361	375	652 &	655					0 030	032 &	660					385	

Confidence Level: Medium based on assumed hours of operation, lack of emission data for jet engine test cells, and lack of emission point data.

Source: "Air Inventory: CY 1985" and "Air Emissions Inventory 1985"

The anis	_	1	 	7	_	7	_
Comments						Unk See notes 8 and 0	
Bldg/ Stack Height (feet)	57.63(B)	(2)	32.42 (B)	10,010	53.27 (B)	Sek	
Hours of Enissions Operation Internols (hysiday) of operation Used	4 RBF+01		1 20E+01	00.100.	1.535.+00	2.96E-03	2000
	24		24		47	24	?
Days of Operation (days/week)	S		v.		0	Ŋ	u
1985 Emissions (tr. ((py)	1.52E+02		4.05E+01	A 77E+00	4.715	9.24E-03	1015.01
Pollutant	90,200 gallyr Perchloroethylene (100%)		Perchloroethylene (100%)	Perchloroethylene (100%)		Zinc Chromate (50%)	30 galfyr Methyl Ethyl Ketone (100%)
C office	gallyr		gallyr	2.825 gallyr		132 gallyr	oallyr
Ouanity (Used)			24,000 gallyr	2,825		132	30
Density ((b/gal)	13.5		13.5	13.5	•	11.2	6.75
Material Used	Perchloroethylene		Perchloroethylene	Perchloroethylene	Zine Chromote Dimes	Zinc Chromate Famer	Methyl Ethyl Ketone
Description (	Degreasing Operations		Degreasing Operations	Degreasing Operations	Painting		Inimer
E				_			
Bidg #	360		 301	324	366	3	

Notes:

1. Building 340 tested a number of small gas-turbine engines (GTE). All of the model engines were listed, but the only model that Earth Tech could find an emission factor for was the GTCP85-180. All engines were assumed to be GTCP85-180 for the purpose of this estimate.

2. 100% volatization was assumed for all organic solvent use, 25% was assumed for degreasing

3. Hours of operation, if not listed in the original documentation are assumed to be 24 hours per day, 5 days per week.

4. Emission factors and fuel flow factors are for JP-8 and not JP-4. Speciated emission factors for JP-4 do not exist.

5. For the GTCP 85-180 engine, fuel flow is 270 lbs of fuelthour, for the TF-39 engine, the fuel flow is 1,448 lbs of fuelthour, and for the T-56 engine, the fuel flow rate is 724 lbs of fuelthour (Reference and engine for the flow in the lERA AEI Guidance document (Reference number 1). Also, a 60 minute test time at idle was assumed for incomplete combustion. No emission factors were available for Methyl Ethyl Ketone for the GTCP 85.
180 engine. No emission factors for the idle setting were available for ethylbenzene and o-xylene for the T-56 engine, so approach emission factors were used.

6. A concentration of 60% methylene chloride was assumed for all phenolic stripper.

Methyl Ethyl Ketone (MEK) is in both parts of a 2-part paint. The percentage of MEK is a result of a volume per volume average.

8. Zinc Chromate and MEK were used only for 8 months of the year, however it is assumed that the same product in the same proportion was used for the other 4 months for the most conservative estimate.

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Confidence Level: Medium based on assumed hours of operation, lack of emission data for jet engine test cells, and lack of emission point data.

Confidence Level: Medium based on assumed hours of operation and lack of emission point data.

Page 14

Comments	Assume that alcohol is	109.5 (B)	
filidg Stack Height (feet)	400 5 40	03.5 (8	53.3 (B)
Controls Vised	Exhaust		Onk
Emissions in Ibs/hour of operation	1 045+04	1.045401	1.60E-01
House of Operation (Invades)	76	5	24
Copyright (Copyright)	LC.	,	2
1986 Emissions ((qv)) (4	3 24 5 + 01	2	5.00E-01
Political Party	Perchloroethylene (100%)		Perchloroethylene (100%)
in Sused Units	3.5 Unk	100	13.5 Unk
Deed St. (160	ne/Alcohol		
	Perchloroethylene/Alcohol	Perchiprothydopo	i cicuroreniyicii
Description (1)	360 65 Chemical Cleaning	109 Vapor Degressing	
E E	65	100	
Bidg #	360	324 10	

Notes: 2. 100% volatization was assumed for all organic solvent use, 25% volatilization was assumed for degreasing.

3. Hours of operation, if not listed In the original documentation are assumed to be 24 hours per day, 5 days per week,

4. A concentration of 60% methylene chloride was assumed for all phenolic stripper.

5. There was less than 5% strontium chromate in the paints, which Earth Tech did not consider a calculable amount.

Although the primer consisted of 2 parts, it was not necessary to combine the two since there was 10% MEK in part one and 15% toluene in part two.
 Methyl Ethyl Ketone (MEK) is in both parts of a 2-part paint. The percentage of MEK is a result of a volume per volume average.
 Equations are taken from AEI Guidance document, reference number 1.

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Confidence Level: Medium based on assumed hours of operation and lack of emission point data.

## General Equation for General Air Emissions

- 1. Density of chemical in lbs/gal = specific gravity of chemical x density of water (8.33)
- 2. Emissions in tons per year = (density of chemical in lbs/gal x concentration of chemical x assumed volatilization) / 2000 lbs per ton
  - 3. Emissions in pounds per hour = emissions in tons per year x 2000 / operating hours
- 4. Emissions in pounds per hour for painting activities = emissions in tons per year x 2000 / (time to paint one aircraft x 24 hours x number aircraft painted per year) Note: If concentration of chemical or volatilization was 100%, no input was required.

## Inputs for General Air Emissions

	Specific Gravity
Perchloroethylene	13.5
Methylene Chloride	11.1
Toluene	7.2
Methyl Ethyl Ketone	6.75

## Equation for Jet Engine Testing

General equation: Emissions = emission factor (in pounds of pollutant per 1000 pounds of fuel) x fuel flow factor (in pounds of fuel per hour) / 2000 lbs per ton Note: Fuel flow factors and emission factors can be found in respective worksheets.

Source: May 1999 Air Emissions Inventory Guidance, Institute for Environment, Safety, and Occupational Health Risk Assessment, Brooks AFB, TX

# Table ES-5 Hazardous Air Pollutant Emissions Summary GTCP85-180 (APU)

		Engin	Engine Operating Mode
			Constant
Exhaust Flow Rate, dscfm			5,542
Fuel Flow Rate, Ibs/hr			270
Compound	CAS Number	lbs/hr	lbs/1,000 lbs fuel*
Formaldehyde	20000	5.50E-03	2.03E-02
Acetaldehyde	75070	5.64E-04	2.09E-03
Acrolein	107028	8.22E-05	3.04E-04
Isobutyraldehyde / Methyl Ethyl Ketone	78842/78933		
Naphthalene	91203	0.00E+00	0.00E+00
Benzene	71432	4.05E-03	1.50E-02
Toluene	108883	1.18E-03	4.36E-03
Ethylbenzene	100414	3.26E-05	1.21E-04
m,p-Xylene	1330207	6.37E-04	2.36E-03
o-Xylene	95476	8.85E-05	3.28E-04
Styrene	100425	5.16E-05	1.91E-04
Total HAPs		1.22E-02	4.51E-02

This table summarizes the hazardous air pollutants which are typical fuel combustion by-products. An expanded pollutant target list, and data qualifiers is provided in Volume II.

Note: A blank represents a compound that was not detected.

 Emission factors provided in pounds per thousand pounds of fuel were calculated using the lbs/hr rate and the fuel flow rate.

Results reported as 0.00 indicate a detected ambient pollutant concentration greater than the detected pollulant concentration in the exhaust stream.

SOURCE: Institute for Environment, Safety and Occupational Health Risk Analysis, Environmental Analysis Division, Air Quality web site: http://sg-www.satx.disa.mil/iera/rse/JP-8data.htm

P:\3000\3114\3114-08b\Final Report\Draft Report\Exec Summary\combust\_haps.xls

Table ES-3
Hazardous Air Pollutant Emissions Summary
T56-A-7 (C-130)

					do augua	Engine Operating Mode			
			ldle		Approach	1	Intermediate		Millian
Exhaust Flow Rate, dscfm			122,033		125.564		125,427		445 004
Fuel Flow Rate, Ibs/hr			724		880		1742		2 262
			lbs/1,000		lbs/1.000		lbe/4 000		112/4 000
Compound	CAS Number	lbs/hr	lbs fuel*	lbs/hr	lbs fuel*	lbs/hr	lbs fuel*	lhe/hr	Und, I vou
Formaldehyde	20000	2.97E-02	4.11E-02	2.94E-02	3.34E-02	1,62E-02	9.27E-03	8 62F-04	3 81E-04
Acetaidehyde	75070	7.54E-03	1.04E-02	0.00E+00	0.00E+00	9.46E-04	5.43F-04	3.72E-04	1 645.04
Acrolein	107028							20.00	10-11-0-1
Isobutyraldehyde / Methyl Ethyl Ketone	78842/78933	9.60E-05	1.33E-04	6.16E-05	7,00E-05			1 40E-04	8 19E 08
Naphthalene	91203	8.40E-04	1.16E-03	9.11E-04	1.04E-03	3.08E-04	1.77F-04	3.025-04	1 345 04
Велгеле	71432	3.45E-03	4.76E-03	3.91E-03	4.45E-03	2.34E-03	1 34E-03	4 795 03	1 061 04
Toluene	108883	1.96E-03	2.71E-03	2 02F-03	2 20E-03	1 675 02	0.000	1.105-03	1.00E-04
Ethylbenzene	100414			5.45E-04	6.19E-04	5.46F-04	3 12E-04	3.74E-03	Z.5ZE-05
m,p-Xylene	1330207	2.24E-04	3.11E-04	6.44E-04	7.32E-04	7.22E-04	4.15F-04	1.425-03	6.28E-04
o-Xylene	95476			2.84E-04	3.23E-04	2.92E-04	1.68E-04	5.625-04	2 495.04
Styrene	100425			3.22E-04	3.66E-04				F0-161-04
Total HAPs		4.39E-02	6.06E-02	3.81E-02	4.33E-02	2.30E-02	1.32E-02	5.90E-03	2.61E-03
									)

This table summarizes the hazardous air pollutants which are typical fuel combustion by-products. An expanded poliutant target list, and data qualifiers is provided in Volume II,

Note: A blank represents a compound that was not detected.

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\* - Emission factors provided in pounds per thousand pounds of fuel were calculated using the lbs/hr rate and the fuel flow rate.

Results reported as 0.00 indicate a detected amblent pollutant concentration greater than the detected pollutant concentration in the exhaust stream.

SOURCE: Institute for Environment, Safety and Occupational Health Risk Analysis, Environmental Analysis Division, Air Quality web site: http://sg-www.satx.disa.mil/lera/rse/JP-8data.htm

# Table ES4 Hazardous Air Pollutant Emissions Summary TF39-GE-1C(C-5)

					O cales	Annah Indian			
			o pr			Cirgina Operating mode			
			and a		Approach	_	Intermediate		Military
Exhaust Flow Kate, dscim			510,030		1,844,298		2.028.301		2 447 000
Fuel Flow Rate, lbs/hr			1,448		10,477		12.541		42 063
			lbs/1.000		the/1 000		11-14 000		13,002
Compound	CAS Number	lbs/hr	lbs fuel*	lbs/hr	,lanj sql	lhe/hr	Ups firel*	the effect	1bs/1,000
Formaldehyde	20000	2.06E+00	1.42E+00	8.54F-02	R 15E-03	& 44E 00	100 100 1	IDS/III	ios ruei
Acetaldehyde	75070	2075 04	20 20 20	20 11 010	0.121.0	0.14E-02	4.90E-03	1.46E-01	1.06E-02
	0/06/	3.07=-01	2.12E-01	3.31E-02	3.16E-03	3.27E-03	2.61E-04	8.55F-03	6 17E-04
Acrolein	107028	2.99E-01	2.06E-01						10-11-10-11-11-11-11-11-11-11-11-11-11-1
Isobutyraldehyde / Methyl Ethyl Ketone	78842/78933	5.35E-02	3.69E-02			2027			
Nonhthalana	10000	+				Z.95E-U3	2.35E-04	3.41E-03	2.46E-04
Napilinaiene	91203	1.41E-01	9.71E-02	0.00E+00	0.00E+00	0.00E+00	0.000	0000	0000
Велгеле	71432	5.18E-01	3.57E-01	1 63E-02	1 665 03	4 707 00	20	20.00	0.00
Tolliano	000007	100,			1:305-03	1.705-02	1.41E-03	2.99E-02	2.16E-03
e i e i e i e i e i e i e i e i e i e i	108883	1.86E-01	1.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005+00
Ethylbenzene	100414	2.91E-02	2.00E-02	1.86E-02	1.78E-03	6.26E-03	4 99F-04	00000	0001000
m,p-Xylene	1330207	5.52E-02	3.80E-02	0.00E+00	0.00E+00	2 38E-02	1 005.03	0.000	0.005+00
o-Xylene	95476	2.90E-02	2 00E-02	1 R2E.02	4 675 03	20 1001	1.305-0	0.00=100	0.00=+00
Styrene	400405	200	30-100:3	1.04E-04	1.37E-03	8.57E-03	6.83E-04	0.00E+00	0.00E+00
Syland	100425	6.51E-02	4.48E-02					1.28E-02	9 26F-04
Total HAPs		3.74E+00	2.58E+00	1.70E-01	1.62E-02	1.24E-01	9 AGE-03	2045.04	4 455 00
							2000	4.0 iE-01	70-36-07

This table summarizes the hazardous air pollutants which are typical fuel combustion by-products. An expanded pollutant target list, and data qualifiers is provided in Volume II.

Note: À blank represents a compound that was not detected.

\* • Emission factors provided in pounds per thousand pounds of fuel were calculated using the lbs/hr rate and the fuel flow rate.

Results reported as 0.00 indicate a detected ambient pollutant concentration greater than the detected pollutant concentration in the exhaust stream.

SOURCE: Institute for Environment, Safety and Occupational Health Risk Analysis, Environmental Analysis Division, Air Quality web site: http://sg-www.sajx.dlsa.mil/lera/rse/JP-8data.htm

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APPENDIX D
.TEAM, LLC'S AIR EMISSIONS ESTIMATE

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### Worksheet Legend

The following paragraphs explain the purpose of each worksheet included in this workbook.

**Summary Emissions Estimates** - The data included in this worksheet should be used by ATSDR for modeling purposes. The worksheet includes the compiled emissions in tons per year for the target chemicals. The data was prioritized using the assumptions listed in Appendix B. All data conversions are performed in this worksheet.

Raw Data (Complete Data Set) - This worksheet includes all data included in the information sources provided. No calculations or data reduction is performed in this worksheet.

**1990s (Sorted)** - This worksheet includes the data for the 1990s included in the information sources provided. This data was extracted from the Raw Data (Complete Data Set) worksheet. All data used in the Summary Emissions Estimates worksheet is highlighted in blue.

**1980s (Sorted)** - This worksheet includes the data for the 1980s included in the information sources provided. This data was extracted from the Raw Data (Complete Data Set) worksheet. All data used in the Summary Emissions Estimates worksheet is highlighted in blue.

**1970s (Sorted)** - This worksheet includes the data for the 1970s included in the information sources provided. This data was extracted from the Raw Data (Complete Data Set) worksheet. All data used in the Summary Emissions Estimates worksheet is highlighted in blue.

**Engine Running Time -** This worksheet includes the calculations used to estimate aircraft engine emissions during testing.

**Calculations -** This worksheet includes the conversion factors used to convert the various data types included in the original data set.

Bullding Desc	Description	Chemical	Usage	Unite	Concentration (mg/m3)	Emissions (Tons/vr)	Notes			Concentration	A 4. 4. 4.	
258 Unknown		Chromic Acid	Γ					The state of the s	S. 78; Children V. 7.8	(mg/m3)	(Tonsiyr)	Assume 100 CFM volume entering
259 Unknown		Chamic Acid								0.0165		1.28E-07 1976 data
		POCONIO I								0.0415		3.23E-07 1975 data
Chomic Acid	Stack	Perchloroethylene								30		2.33E-04 1976 data
301 Concentration	l control	Stack Sample			2.15	1.67E-05	Assume 100 CFM Volume; 1980 data					
301 Chemical Cleaning	aning	Perchloroethylene	405	405 T/yr			1.01E+02 Assume 25% volabilization					
		Ethyl Benzene	0.016	0.016 gaVmo		6.66E-04	6.66E-04 Assume 100% volatilization					
		Methylene Chloride	1.485	1.485 gaVmo		9.87E-02	Assume 100% volatilization					
		Toluene	6.668	6.668 gaVmo			Assume 100% volatifization					
2005 MATONE DATE CO.		Methyl Ethyl Ketone	3.6	3.6 да/то			Assume 100% volatilization					
BL SW LIVE CO		Chromic Acid	20	gaVmo		6.75E-02	6.75E-02 Assume 2.5% overspray					
308 Electronics		Toluene	25	25 gal/mo		1.04E+00	1.04E+00 Assume 100% volatifization					
		Methylene Chloride		gal/mo		6.65E-02	6.65E-02 Assume 100% volabilization					
		Methyl Ethyl Ketone	2	2 gal/mo		8.10E-02	Assume 100% voletilization					
324 Metalizing/coatings	alings	Methyl Ethyl Ketone	99	6 ga/mo		2.43E-01	Assume 100% volabilization Assume worst case value (1985 6 cal/mo)					
		Toluene	0.75	0.75 gaVmo			Assume 100% volatilization					
329 Paint Area Facility	Kality	Perchlomethylene	4.34 T/yr	Thr			Assume 25% voletilization; Assume that all emissions are perchiccostrylene					
347 Jet test stands		Вепхепе	107697.1	107697 mins testing		1,86E-01	1382 tests conducted in 1982; average 76 mins per test; total is 107, 597 mins testing per year; T-59-A7 emission factors.					
348		Ethylbenzene	107697.	107697 mins testing		2.42E-02	1392 tests conducted in 1992, everage 78 mins per test; total is 107, 697 mins testing per year, T-59-A7 2 emission factors					
		Formaldehyde	107697.	107697 mins testing		1.60E+00	1982 tests conducted in 1982; everage 78 mins per test; losal is 107, 697 mins testing year; 1-56-A7 1,60E+00 emission factors					
		Methyl Ethyl Ketone	107697.	107697 mins testing		5.07E-02	1362 tests conducted in 1962; average 76 mins per fest; total is 107, 897 mins testing per year; T-56-A7 emission factors					-
		Toluene	107697.	107697 mins testing		1.06E-01	1392 fests conducted in 1992; average 76 mins per test; lotal is 107, 697 mins testing per year; T-56-A7 emission factors					
		m,p Xylene	107697	107697 mins teeting		1,216-02	1992 tests conducted in 1992, everage 78 mins per test; total is 107, 697 mins testing per year; T-59-A7 emission factors					
		o Xylene.	107697.	107697 mins testing		1.25.6.02	1392 tests conducted in 1992; everage 78 mins per test; total is 107, 697 mins testing per 17-66-A7					

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Building				Concentration	Emissions			Concentration	Estimated	
1		Control of the contro		(cmgm)	(Tonavyr)	Notes	Usage	(mg/m3)	(Tonetyr)	Notes
348 Degreaser(s)	Perchloroethylene				6.35E+01	Assume Perchonethylene is degresser (100%); 6.35E+01 calcutated value from AEI			3.90E-0	Assume 25% volatilization; 1978 3,90E-01 data
360 Paint Shop	Perchloroethylene				4.74E+01	Calculated value from 1987/1986 AEE assume all 4.74E+01 degrazare contain Perc		20.125		Assume 100 CFM volume emission.
361 Paint Facility	Perchloroethylene				5.92E+00	Calculated value from 1987/1986 AEI; assume contaminant is Perc (bead contaminant and anticidation) on volume of anticidad.				
365 Paint Shop Hangar	Methylene Chloride			164.50	2.60E+02	Celculated value from				
	Chromic Acid			0.10	8.09E-07 volume	Assume 10 CFM emission volume				
	Toluene			44.00	3.42E-04 from paint	Assume chemical is toluene from paint				
	Methyl Ethyl Ketone			31.79	4.10E+01 volume	Assume 10 CFM emission volume		8		Assume 100 CFM volume emission
	Perchiomethylene			1.05	8.15E-06 votume	Assume 10 CFM emission volume				187.5 Carla
375 Welding shop/pain/degresse Methyl Ethyl Ketone	se Methyl Ethyl Ketone	32.85	32.95 gaVmo		1.33E+00 1969 data	Assume 100% volatilization, 1969 date				
	Chromic Acid	13.5	13.5 даУто		4.55E-02 1989 date	Assume 0.1% overspray; 1989 date				
	Methylene Chloride		1 дайто		6.65E-02 1988 date	Assume 100% votatifization, 1988 date				
	Toluene	27.05	27.05 gaVmo		1,12E+00 1969 date	Assume 100% volatilization; 1869 date				
	Perchlomethylene	22.5	22.5 gaVmo		4.55E-01	4.55E-01 1988 data				
	Benzene							68.7		Assume 100 CFM volume emission.
385 Paint stripping	Methyl Ethyl Ketone				5.10E+01 AEI	Calculated value from 1967 AEI				
645 Zinc Chromate priming	Chromic Acid			90'0	5.01E-07 volume	Assume 10 CFM emission volume				
	Methyl Ethyl Ketone	3	3 gallyr		1.01E-02	1,01E-02 Assume 100% volatilization				
647 General usage	Toluene	3.6	3.6 дайто		1.50E-01	1.50E-01 Assume 100% voleditzebon				
920 Solvent Tank	Perchloroethylene				3.00E-01	3.00E-01 contains perc				
1420 Special Weapons	Chromic Acid							1.2		Assume 100 CFM volume emission, 9.33E-06 1971 date
3020 Coatings	Chromic Acid							00.00		Assume 100 CFM volume emission,

	1		
Summary of estimated.	Perchloroethylene Chromic Acid	Methyl Ethyl Ketone Methylene Chloride Ethyl Benzene	Toluene Benzene Xylenes Formaldehyde
	219.61 Thr 0.11 Thr	93.86 TAY 260.23 TAY 0.02 TAY	0.19 TAY 0.02 TAY 1.60 TAY
Summary of, estimated 1980s, emissions	109.58 Perchioroethylene Chromic Acid	67.47 Methyl Ethyl Ketone 394.71 Methylene Chloride Ethyl Benzene Tahana	Benzene Xylenes Formaldehyde
General Emissione. 1985 Data/Building. Number Unknown	Perchloroethylene	Metryl Etryl Kelone Stripper (50%) MC	

3,90E-01 Tyr 9,80E-06 Tyr 7,73E-04 Tyr Tyr Tyr 5,15E-04 Tyr Tyr Tyr

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360	Report of Study of Trichloroethylene Vapor Degreasers in Buildings 258 and 259, 20 March 1973 General Room Concentration Results Graph, Building 258/259 20 February 1976 AF Form 215A laboratory analyses results, building 258, 10 March 1976 AF Form 215A laboratory analyses results, building 259, 24 February 1976  OEHL Chemical analyses, Building 360, 3 April 1978 OEHL Chemical analyses, Building 360, 27 March 1978 OEHL Chemical analyses, Building 360, 20 March 1978 OEHL Chemical analyses, Building 360, 27 March 1978
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SOC   SOC	SCOTA   SCOT							3 5			162,681	lb/yr		
and of place operations         NCC         2000 (IDV)         1107 NCC         100	100   100							xox			42,280	lovyr Livin		
100   100	100   100							XON			85.034	D/yr		
100   100	100   100	- +	oam-in-place operations		20701 (lb/yr)		11.07	, MC	100		20.701	lh/vr		
NEE   100	March   100   101	2 0	populario operations		3045 (lb/yr)		11.07	, MC	100		3.045	lb/vr		
TOER 20 100 11	TOE	9 6	Color of the family and the second					MEK	100		179.510	b/vr		
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Complete pulling area sample	Part   Part			area sample					ye	,	260.00	tons/yr		
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Page 8 of 21

			K-04-1-17-7-18	7 3 3								
# 6 PHG	Emis Pr #	Material Used	Amount Used Unit or Time Run	Specific Gravity	(tbe/f00d	Density Po	Pollutant Emission.	sion. Controls	<b>1</b>	ELNO.	Comments	
259	tank 10	ea sample				- 15			2400			
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867	Chromic acid measurements Chromium measurements	ea sample ea sample				. 5	cacld	***************************************	.004007	mg/m3	mic acid control of the control of t	AT AT John
	91		The same of the sa						.001026	mg/m3	.mgm 8.0.100.	4.000 3.54
	Unchloroethylen	product product	00			충	,			of the control of the	1973 data	( v v )
301	Chromic Acid stack cor	a Jock es				4	4 .			D .~~ 3		
		100 VOID	The state of the s		No.	3.7	Acid	Concession Street	1.7-2.6 mg/m3	٠٣٠	1980 data	
301	baseline data	Product	gay					ALEXANDER OF STREET		A STANDARD STANDARD	していました。 1986 data	Ž,
		coating	0.016 gal/mo			ethyl b	ethyl benzene					
		coating				Toluene						
		paint	0.15 gal/mo	_		MEK						
		stripper	0.27 gaVmo			Toluene	80					
		product	3300 gal/mo			Dec o						
		coating	0.75 gal/mo	_		Toluene			•			
		paint				MEK						
		Tubricant	5 gaVmo			Toluene						
		product	5 gal/mo			MEK						
		lube-lok	0.2			perc	perc					
		一般 はない こうない				0.00			ACTIVITIES OF THE PERSON OF TH			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
303	disposal		520	West Processing to	The second second	Dec		K 800 100 100 100	がある。 は は は は は は は は は は は は は	STATES STATES	A STATE OF THE STA	
			1100 gal/mo	•		111-TCE	щ				Date: Disposed of Infougn DRMO	
			0.25 gaVmo	_		Toluene						
			0.25 gavmo			MEK						
			10 gavmo								consumed in process	
		Charles and Section 1	Ollogo Ol	gavino Transport		Chromic acid		activities of the Association	THE PROPERTY OF THE PROPERTY O	and the contract of the contra	Consumer of the control of the contr	
305	MATPME paint shop	paint	<10 gaVmc	Fight Order Activities		Chromic acid		A STATE OF THE STA		A CHARLES		
		paint	<10 gaVmo				o acid				1985 dala	
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308	Electronic operations	humiseal	>1 gal/mo						Company of the control of the contro	The second secon	18 STORES OF THE	the street
		numiseal	>1 gal/mo	<u>.</u> 0		W						
	,	product	2 gavino			אַכוּ וווי	∢					
		product	25 gaVmo			Thehlo	Tehloroethane					
	electronic repair	product	24 gaVmo			Toluene	0.000					
elec	tronic repair/pai	product	270 galwk			TCE						
324	allalpoolules ence						€. €.					100
	Apide para Birranosari	coating	14 lbs/mo			Ď			7.0	0.73 mg/m3	1991 data	X 122
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324	metalizing/wire spray	aliz			Company of the Action	ธิ	E E	A TO STATE OF THE PROPERTY.		A TOTAL STANDARD STANDARD	1986 data: very low concentrations	
		metalizing plasma				perc					very low concentrations	
The Samuel Carlo	The second section of the second seco		BINSPIN	Charles Sales Sales Sales	The state of the s		THE COUNTY OF MISSION	Control of the Control		and the second s	very low concentrations	
324	metalizing area	sma s		A 40'58'8 88' M. J.	CONTRACTOR OF THE			京出 で 戻っ 幸心	33.	ma/m3	oo oo oo oo oo oo oo oo oo oo oo oo oo	
		plasma spray				perc			33	335 mg/m3		
		plasma spray.				MEK			286	mg/m3		
		plasma spray				MEK			33	mg/m3		
		plasma spray				chromlum	Ē		0.6	i mg/m3		
•		piasma spray				chromium	Ę		0.6	0.5 mg/m3		
		plasma spray				X X X			333	mg/m3		
		plasma spray				perc			336	5 mg/m3		
で変形が		plasma spra)				MEK.	WARRANGE CARE	Charles and a Charles	280	- 4		
324	metalizing/wire spray	metalizing pla		A CONTRACTOR AND A STATE OF THE		111			AO A	162 mo/m3		1000 CO
		metalizing plasma				111 TCA	. «		155		1988 data	
		metalizing plasma				111 TCA	<		161	mg/m3		
		metalizing plasma				MEK Sign				mg/m3		
		b				MEK			8	mg/m3		

324 me 324 me 324 me		8		(Ibe)	(lb/gal)		Fedio					
324 324	entrological Sections (1995) 등 (1995)	etalizing plasma etalizing plasma etalizing plasma	55 gaVmo 3 gaVmo 10 be/mo								1986 data; disposed through DRMO disposed of through DRMO	
324	alizing area	etalizing plasma	75 gal			5					consumed in process	
	etalizing area	etalizin	330 gaVmo	330 gaVmo	200000000000000000000000000000000000000	perc			12 mg/m3		12 mg/m3 1984 data 1984 data 1984 data 1984 data 1984 data 1984 data 1988 data 1988 data 1988 data 1988 data 1	
324	stalizing area	ating ating	6 gal/mo 10 gal/mo		3.1793	MEK 111 TCA		rcA			1903 Odila 1985 dala	
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329 GT	starter clean	overing area cample	1 gavmo	or gavmo		toluene						
329		area sample area cample			8,7	perc		54.43 m	54.43 mg/m3		Im3 1985 data; average of 7 samples	
347	47 electrical repair area p	ersonal	Sampling			Perc Perc		Perc 8.9 mg/m3 Perc 40 mg/m3	8.9 mg/m3 40 mg/m3	196	1991 data; average of 2 samples 1884 fals: all campling	
348	parts cleaning area	general usage	55 gaVmo			Perc			1 mg/m3		Perc 1 mg/m3 general usage 55 galfino 55 gal	
360	metalizing operations	personal sampling personal sampling	ing ling ling			Perc Perc		unw 739 mg/m3 199 1448 mg/m3	739 mg/m3 1448 mg/m3		Unknown  Very Charles  1980 data	
360	360 metalizing operations	ersonal samplin ersonal samplin				26.			9 mg/m3 22 mg/m3 22 mg/m3		9 mg/m3 22 mg/m3 1986 data	
360				hax c	_	hex chrome hex chrome			0.12 mg/m3		rome 0.12 mg/m3 1984 data 0.00 mg/m3 1984 data	
360	360 metalizing operations	2 2 2 2	330 gal/mo 110 gal/mo 110 gal/mo 55 gal/mo								30 galmo 1984 data 15 galmo 15 galmo	
360	360 metalizing operations	area sampling area sampling area sampling area sampling area sampling				£2					3.3 mg/m3 1978 data 3.1 mg/m3 1978 data 1.2 mg/m3 7.5 mg/m3 7.5 mg/m3 9.6 mg/m3 9.6 mg/m3 9.6 mg/m3 9.6 mg/m3 9.6 mg/m3 9.6 mg/m3	
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360	360 pendirani spray area a a a a a a a a a a a a a a a a a	rea sampling rea sampling rea sampling rea sampling rea sampling						Perc	22 mg/m3 2 mg/m3 1 mg/m3 2 mg/m3 3 mg/m3 25 mg/m3		1985 dela	
360	360 metalizing operations area area area area	sampling sampling sampling	W			MC toluene MC		MC 1.33 m Modern 0.65 m MC 0.65 m MC 0.65 m MC MC 0.65 m MC MC 0.65 m MC MC 0.65 m MC MC MC MC MC MC MC MC MC MC MC MC MC	277 mg/m3 1.33 mg/m3 0.65 mg/m3 0.86 mg/m3		1986 data	

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REAL SAMPORTOR         Perc         0.244 rogin           FOR SAMPORTOR         Perc         0.244 rogin           FOR SAMPORTOR         Perc         0.244 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.245 rogin           FOR SAMPORTOR         Perc         0.25 rogin           FOR SA	Perc 0.254 mg/m Perc 0.254 mg/m Perc 0.254 mg/m Perc 0.254 mg/m Perc 0.254 mg/m Perc 0.255 mg/m Perc 0.256 mg/m Perc 0.256 mg/m MeK 0.259 mg/m 9.250 mg/m	area sampling area sampling area sampling area sampling area sampling area sampling area sampling area sampling
Perc	Perc 0.334 mg/mm perc 0.334 mg/mm perc 0.334 mg/mm perc 0.334 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.346 mg/mm perc 0.357 mg/mm perc 0	area sampling area sampling area sampling area sampling area sampling area sampling area sampling area sampling area sampling
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Perc         2.55 m mm           area sampling         Perc         2.55 m mm           area sampling         Perc         0.25 m mm           area sampling         Perc         0.25 m mm           area sampling         MEK         0.27 m m           area sampling         MIK         MEK         1.3 m m           AREA         MEK         MEK         1.3 m m           MEK         MEK         MEK         1.3 m m           MEK         MEK         MEK         1.3 m m           MEK         MEK         MEK         90 m m           MEK         MEK         90 m m         1.3 m m           MEK         MEK         90 m m         1.4 m m           MEK         3 galino         MEK         3 m m           Metalliptimer         1.4 m m         1.4 m m           Meta	Perc 2.051 mg/mm/merc 2.052 mg/mm/merc 2	area sampling area sampling area sampling area sampling
Processor   Proc	Perc 0.200 mg/m WEK 0.200 mg/m WEK 0.200 mg/m WEK 0.200 mg/m WEK 0.200 mg/m WEK 0.200 mg/m WEK 0.200 mg/m 0.20	area sampling area sampling area sampling area sampling
ATT DESCRIPTION         ATT DESCRI	Perc 0.250 mg/m MEK 0.14 mg/m MEK 0.039 mg/m MEK 0.039 mg/m MEK 0.037 mg/m MEK 0.037 mg/m MEK 0.047 mg/m MEK 0.077 mg/m MEK 0.077 mg/m MEK 0.007 mg/m MEK 0.007 mg/m MEK 0.007 mg/m MEK 0.001 mg/m MEK 0.	area sampling area sampling area sampling
American political poli	MEK MEK MEK MEK MEK MEK MEK MEK MEK MEK	area sampling
AND COLOR         MEK         0.034 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         MEK         0.037 mg/ms           AND COLOR         0.037 mg/ms         0.037 mg/ms <td< td=""><td>  Mark</td><td>area samuling</td></td<>	Mark	area samuling
Total Date of the control of	Merk Merk Merk Merk Merk Merk Merk Merk	
Times a sampling         MEK         0.038 mg/m           area a sampling         MEK         0.077 mg/m           area a sampling         MEK         0.077 mg/m           area a sampling         MC         0.077 mg/m           area a sampling         MC         0.071 mg/m           area a sampling         MC         0.071 mg/m           area a sampling         MC         0.071 mg/m           area a sampling         MC         0.071 mg/m           AREK         MEK         1.01 mg/m           MEK         1.02 mg/m         0.01 mg/m           Mex         2 mg/m         0.01 mg/m           Mex         2 mg/m         0.	MEK   0.039 mgm	B
MEK         0.225 mg/ms           area sampling         MEK         0.027 mg/ms           area sampling         MC         1.02 mg/ms           area sampling         MC         1.02 mg/ms           area sampling         Chromates         0.104 mg/ms           area sampling         Chromates         0.104 mg/ms           AREK         MEK         4 mg/ms           MEK         MEK         1.11 mg/ms           MEK         MEK         1.11 mg/ms           MEK         MEK         1.11 mg/ms           MEK         MEK         1.11 mg/ms           MEK         MEK         1.11 mg/ms           MEK         MEK         1.11 mg/ms           MEK         MEK         1.11 mg/ms           Daintoine         Daintoine         0.01 mg/ms           Daintoine         0.02 mg/ms         0.01 mg/ms           Daintoine         0	NEK   0.252 mg/m	area sampling
AMEX         AMEX         0.077 mgm           area sampling         IMO         164.55 mgm           area sampling         Chromates         0.104 mgm           area sampling         Chromates         0.104 mgm           area sampling         Chromates         0.104 mgm           area sampling         Chromates         0.104 mgm           AMEX         AMEX         2.11 mgm           AMEX         AMEX         2.11 mgm           AMEX         AMEX         3.11 mgm           AMEX         AMEX         1.11 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         AMEX         3.00 mgm           AMEX         3.00 mgm         3.00 mgm	MEK	area sampling
MC         MC         142.5 mg/m           sea sampling         Chromates         0.104 mg/m           sea sampling         Chromates         0.104 mg/m           MEK         MEK         21 mg/m           MEK         MEK         21 mg/m           MEK         MEK         21 mg/m           MEK         MEK         21 mg/m           MEK         MEK         21 mg/m           MEK         MEK         21 mg/m           MEK         MEK         31 mg/m           MEK         MEK         31 mg/m           MEK         MEK         31 mg/m           MEK         MEK         32 mg/m           MEK         MEK         32 mg/m           Mex chrome         0.03 mg/m         100 mg/m           panitypiner         benzene         0.33 mg/m           panitypiner         3 galmo         MEK           panitypiner         3 galmo         MEK           panitypiner         1 galmo         MEK           panitypiner         1 galmo         MEK           panitypiner         1 galmo         MEK           panitypiner         1 galmo         MEK           panitypiner	NG (164.5 mg/m) (1	sampling
MC	WC         164.5 mg/m           Chromates         0.104 mg/m           Chromates         0.104 mg/m           WEK         211 mg/m           WEK         211 mg/m           WEK         13 mg/m           WEK         90 mg/m           WEK         90 mg/m           WEK         90 mg/m           WEK         36 mg/m           Nex chrome         0.01 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome         0.03 mg/m           Nex chrome	6 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10
MEK         Unumates         Ordense         Ordense           aces sampling         Tolleens         14 mg/m           aces sampling         MEK         150 mg/m           MEK         MEK         150 mg/m           MEK         MEK         151 mg/m           MEK         MEK         151 mg/m           MEK         MEK         151 mg/m           MEK         MEK         151 mg/m           MEK         MEK         151 mg/m           MEK         MEK         151 mg/m           MEK         MEK         151 mg/m           Mek         Mek         153 mg/m           Mek         Mek         153 mg/m           Mek         Mek         153 mg/m           Mek         Mek         153 mg/m           Mek         Mek         153 mg/m           Mek         Mek         153 mg/m           Mek         Mek         153 mg/m           Mek         154 mg/m         154 mg/m           Mek         154 mg/m         155 mg/m           Mek         154 mg/m         155 mg/m           Mek         154 mg/m         155 mg/m           Mek         154 mg/m	Chromates 0.043 mg/m.  Chromates 0.044 mg/m.  VEK 211 mg/m.  VEK 211 mg/m.  VEK 131 mg/m.  VEK 90 mg	sampling
Totuninates	Unionitiates	area samplino
Total Part   Tot	Colone   C	Building of the
MEK         150 mg/m3           MEK         MEK         211 mg/m3           MEK         MEK         211 mg/m3           MEK         MEK         151 mg/m3           Mek         151 mg/m3         151 mg/m3           Mek         151 mg/m3         151 mg/m3           Mek         151 mg/m3         151 mg/m3           Mek         152 mg/m3         152 mg/m3           Mek         152 mg/m3         152 mg/m3           Mek         152 mg/m3         152 mg/m3           Mek         152 mg/m3         152 mg/m3           Mek         152 mg/m3         152 mg/m3	190 mg/m3   190	area sampling
MEK         211 mg/m3           MEK         111 mg/m3           MEK         90 mg/m3           MEK         90 mg/m3           Denizone         0.01 mg/m3           Denizone         0.02 mg/m3           Denizone         0.03 mg/m3           Denizone         0.03 mg/m3           Denizone         0.03 mg/m3           Denizone         0.03 mg/m3           Denizone         0.03 mg/m3           Denizone         0.03 mg/m3           Denizone         0.03 mg/m3           Denizone         0.04 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3           Denizone         0.05 mg/m3     <	WEK	area
MEK         MEK         211 mg/m3           MEK         MEK         211 mg/m3           MEK         MEK         13 mg/m3           MEK         MEK         147 mg/m3           MEK         MEK         147 mg/m3           MEK         MEK         36 mg/m3           Amily printer         Post chrome         0.01 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Post chrome         0.03 mg/m3           Bankly printer         Dobt chrome         0.03 mg/m3           Bankly printer         Dost chrome         0.03 mg/m3           Bankly printer         3 galimo         MEK           Bankly printer         3 galimo         MEK           Bankly printer         1 galimo         MEK           Bankly printer         2 galimo         MEK           Bankly printer	VIEK         211 mg/m3           VIEK         13 mg/m3           VIEK         13 mg/m3           VIEK         36 mg/m3           VIEK         36 mg/m3           VIEK         36 mg/m3           VIEK         36 mg/m3           VIEK         36 mg/m3           VIEK         37 mg/m3           VIEK         476 mg/m3	
MEK         MEK         13 mg/m3           MEK         MEK         13 mg/m3           MEK         MEK         147 mg/m3           MEK         MEK         36 mg/m3           MEK         36 mg/m3         36 mg/m3           MEK         30 mg/m3         30 mg/m3           Mex chrome         0.01 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.03 mg/m3         0.03 mg/m3           Mex chrome         0.04 mg/m3         0.03 mg/m3           Mex chrome         0.04 mg/m3         0.03 mg/m3           Mex chrome         0.04 mg/m3         0.03 mg/m3           Mex chrome         0.04 mg/m3         0.03 mg/m3           Mex chrome         0.04 mg/m3         0.03 mg/m3           Mex chrome         0.04 mg/m3		MEK
MEK         MEK         19 mg/m3           MEK         MEK         19 mg/m3           MEK         MEK         90 mg/m3           MEK         MEK         90 mg/m3           Paintiprimer         hos chrome         0.01 mg/m3           Paintiprimer         hos chrome         0.03 mg/m3           Paintiprimer         hos chrome         0.01 mg/m3           Paintiprimer         hos chrome         0.03 mg/m3           Paintiprimer         hos chrome         0.03 mg/m3           Paintiprimer         hos chrome         0.03 mg/m3           Paintiprimer         bonzene         0.03 mg/m3           Puel         bonzene         0.03 mg/m3           Puel         bonzene         0.03 mg/m3           Puel         bonzene         0.03 mg/m3           Puel         bonzene         1.04 mg/m3           Puel         bonzene         1.04 mg/m3           Puel         bonzene         1.04 mg/m3           Puel         bonzene         1.04 mg/m3           Puel         bonzene         1.04 mg/m3           Puel         bonzene         1.04 mg/m3           Puel         bonzene         1.04 mg/m3           Pue	13 mg/m3   147 m	MEK
MEK         MEK         TAT mg/m3           MEK         MEK         147 mg/m3           MEK         MEK         30 mg/m3           Pain/primer         Pax chrome         0.01 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Pain/primer         Pax chrome         0.03 mg/m3           Vel         Pax chrome <th< td=""><td>  New Price</td><td>MEK</td></th<>	New Price	MEK
MEK         MEK         SO mg/m3           MEK         MEK         30 mg/m3           Paulufprinter         Phat chrome         0.01 mg/m3           Paulufprinter         Phat chrome         0.03 mg/m3           Paulufprinter         Phat chrome         0.03 mg/m3           Paulufprinter         Phat chrome         0.03 mg/m3           Paulufprinter         Phat chrome         0.03 mg/m3           Paulufprinter         Phat chrome         0.03 mg/m3           Paulufprinter         Phat chrome         0.03 mg/m3           Puel         Phat chrome         0.04 mg/m3           Puel	VIEK         90 mgm3           VIEK         36 mgm3           Nex chrome         0.01 mgm3           Nex chrome         0.03 mgm3           Nex chrome         0.03 mgm3           Nex chrome         0.03 mgm3           Nex chrome         0.03 mgm3           Nex chrome         0.03 mgm3           Nex chrome         0.03 mgm3           Nex chrome         0.05 mg/m3           Nex chrome	
MEK         NIEK         So ringinal           Paint/printer         Paint/printer         30 ringinal           Paint/printer         Paint/printer         0.01 mg/m3           Paint/printer         Paint/printer         0.03 mg/m3           Paint/printer         Paint/printer         0.03 mg/m3           Paint/printer         Paint/printer         0.03 mg/m3           Paint/printer         Paint/printer         0.03 mg/m3           Paint/printer         Paint/printer         0.03 mg/m3           Puel         Paint/printer         0.03 mg/m3           Puel         Paint/printer         1.04 mg/m3           Puel         Paint/printer         1.04 mg/m3           Puel         Paint/printer         1.04 mg/m3           Puel         Puezene         1.04 mg/m3           Puezene         Puezene         1.05 mg/m3           Puezene	VIEK         36 mg/m3           VIEWING         36 mg/m3           Nex chrome         0.01 mg/m3           Nex chrome         0.03 mg/m3           Nex chrome<	MEK
Ballippinter         MEK           Ballippinter         Ast chrome         0.03 mg/m3           Ballippinter         Bax chrome         0.03 mg/m3           Ballippinter         Bax chrome         0.03 mg/m3           Ballippinter         Ballippinter         0.03 mg/m3           Ballippinter         Ballippinter         0.03 mg/m3           Ballippinter         Ballippinter         0.03 mg/m3           Ballippinter         Ballippinter         0.03 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.00 mg/m3           Buel         Benzene         1.05 mg/m3           Buel         Benzene         1.00 mg/m3           Buel         Benzene         1.00 mg/m3           Buel         Benzene         1.00 mg/m3           Buel         Benzene         1.00 mg/m3           Buel         Benzene         1.00 mg/m3	Structure	MEK
paint/primer         hax chrome         0.01 mg/m3           paint/primer         paint/primer         0.03 mg/m3           paint/primer         bax chrome         0.35 mg/m3           tel         bax chrome         15 mg/m3           tel         15 gal/m3         15 mg/m3<	Pex chrome	
paint/primer         hax chrome         0.01 mg/m3           paint/primer         hax chrome         0.03 mg/m3           paint/primer         hax chrome         0.03 mg/m3           paint/primer         hax chrome         0.03 mg/m3           paint/primer         paint/primer         0.35 mg/m3           paint/primer         benzene         0.35 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         5 gal/m3         MEK           pain	lex chrome 0.01 mgm.3 mex chrome 0.01 mgm.3 mex chrome 0.03 mgm.3 mex chrome 0.03 mgm.3 mex chrome 0.03 mgm.3 mex chrome 0.03 mgm.3 mgm.3 mex chrome 0.03 mgm.3 mg	
pain/brimer         nex chrome         0.03 mg/m3           pain/brimer         pain/brimer         0.03 mg/m3           pain/brimer         pain/brimer         0.03 mg/m3           pain/brimer         berz chrome         0.03 mg/m3           pain/brimer         berzaene         0.35 mg/m3           berzaene         berzaene         0.35 mg/m3           tuel         berzaene         0.35 mg/m3           tuel         berzaene         0.35 mg/m3           tuel         berzaene         0.35 mg/m3           tuel         berzaene         1.7 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         berzaene         1.5 mg/m3           tuel         merzaene         1.5 mg/m3           tuel         merzaene         1.5 mg/m3           tuel         merzaene         1.5 mg/m3	Total control         Total co	
path/primer         path/primer         nex chrome         0.03 mg/m3           path/primer         path/primer         0.03 mg/m3           path/primer         nex chrome         0.03 mg/m3           path/primer         path/primer         0.35 mg/m3           tuel         benzene         0.35 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         178 mg/m3           MEK         3gal/mo         MEK           pain/primer         3 gal/mo         MEK           pain/primer         3 gal/mo         MEK           pain/primer         1 gal/mo         MEK           pain/primer         1 gal/mo         MEK           pain/primer         1 gal/mo         MEK           pain/primer         1 gal/mo         MEK           pain/primer         1 gal/mo         MEK           pain/primer         1 gal/mo         Mick           pain/primer         1 gal/mo         Mick	The chrome	painVortmer
patricyprinter         Nex chrome         0.03 mg/m3           patricyprinter         patricyprinter         0.03 mg/m3           patricyprinter         patricyprinter         0.03 mg/m3           patricyprinter         benzene         0.03 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         176 mg/m3           MEK         benzene         176 mg/m3           AMEK         benzene         177 mg/m3           patricypriner         5 gal/mo         MEK           patricypriner         1 gal/mo         MEK           patricypriner         1 gal/mo         Mek           patricypriner         1 gal/mo         Mek           patricypriner         1 gal/mo         Mek           patricypriner         1 gal/mo         Mek           patricypriner         1 gal/mo         Mek           patricypriner         1 gal/mo         Mek	Hax chrome 0.03 mg/m3 Hax chrome 0.05 mg/m3 Hax chrome 0.35 mg/m3 Hax chrome 1.05 mg/m3	- dans
pain/printed         hex chrome         0.82 mg/m3           pain/printed         hex chrome         0.82 mg/m3           pain/printed         hex chrome         0.33 mg/m3           tuel         benzene         0.35 mg/m3           tuel         benzene         176 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         188 mg/m3           tuel         benzene         188 mg/m3           tuel         benzene         188 mg/m3           tuel         benzene         188 mg/m3           AKEK         3 gal/mo         MEK           pain/printer         1 gal/mo         MEK           pain/printer         1 gal/mo         MEK           pain/printer         1 gal/mo         MEK           pain/printer         1 gal/mo         MEK           pain/printer         1 gal/mo         Mick           pa	tex chrome         0.62 mg/m3           tex chrome         0.35 mg/m3           tex chrome         0.35 mg/m3           tex chrome         0.35 mg/m3           tex chrome         1970 da           tex chrome         0.35 mg/m3         area san           tex chrome         5 mg/m3         area san           tex chrome         5 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san           tex chrome         13 mg/m3         area san	pamobining
pain/brimer         nex chrome         0.35 mg/m3           pain/brimer         nex chrome         0.35 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         benzene         1 mg/m3           tuel         mg/m3         mg/m3           tuel         mg/m3         mg/m3           tuel         mg/m3         mg/m3           tuel/updimer         1 gal/m0         mg/m3           pain/updimer         1 gal/m0         mg/m3	tex chrome         0.35 mg/m3           tex chrome         0.35 mg/m3           benzene         2 mg/m3         area san sea sa	paintpnmer
pain/primer         List chrome         0.35 mg/m3           tuel         benzene         12 mg/m3           tuel         benzene         12 mg/m3           tuel         benzene         178 mg/m3           tuel         benzene         135 mg/m3           tuel         benzene         135 mg/m3           tuel         benzene         5 mg/m3           tuel         benzene         135 mg/m3           tuel         benzene         140 mg/m3           tuel         benzene         140 mg/m3           tuel         benzene         140 mg/m3           tuel         benzene         140 mg/m3           tuel/brinner         15 gal/mo         MEK           pain/brinner         15 gal/mo         MeK           pain/brinner         15 gal/mo         MeK           pain/brinner         15 gal/mo         MeK           pain/brinner         15 gal/mo	Tex Chrome	paint/primer
tuel         Denzene         176 mg/m3           tuel         Denzene         176 mg/m3           tuel         Denzene         176 mg/m3           tuel         Denzene         176 mg/m3           tuel         Denzene         176 mg/m3           tuel         Denzene         176 mg/m3           tuel         Denzene         176 mg/m3           tuel         Denzene         130 mg/m3           MEK         Denzene         130 mg/m3           degresser         2 galmo         MEK           pain/primer         3 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         Mike           pain/primer         1 galmo         Mike           pain/primer         1 galmo         Mike           pain/primer         2 galmo         Mike           pain/primer         2 galmo         Mik	1979 da	pair
fuel         Denzene         2 mg/m3           fuel         Denzene         176 mg/m3           fuel         Denzene         176 mg/m3           fuel         Denzene         176 mg/m3           fuel         Denzene         178 mg/m3           fuel         MEK         3 gal/mo         MEK           degresser         2 gal/mo         MEK         MEK           pain/primer         3 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         MEK         MEK           pain/primer         1 gal/mo         Mick         MEK           pain/primer         1 gal/mo         Mick         MEK           pain/primer         1 gal/mo         Mick         MEK           pain/primer         1 gal/mo         Mic	Parkene 170 da 3 da 3 da 3 da 3 da 3 da 3 da 3 da	1
Vertication         Describer         2 mg/m3           Unel         Describer         12 mg/m3           Unel         Describer         15 mg/m3           Unel         Describer         15 mg/m3           Unel         Describer         15 mg/m3           MEK         3 gal/mo         MEK           Describer         NEK         MEK           Describer         MEK         MEK      Describer         Describer         MEK	1979 da   1979	3
Viel         benzen           Luel         benzen           Luel         benzen           VEK         3 gal/mo         MEK           Agreaser         2 gal/mo         11 TC           Paint/primer         5 gal/mo         NEK           Paint/primer         3 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer         1 gal/mo         MEK           Paint/primer <td>  176 mg/m3   area san energene   176 mg/m3   area san energene   5 mg/m3   area san energene   13 mg/m3   area san energene   13 mg/m3   area san energene   13 mg/m3   area san energene   13 mg/m3   area san energene   14 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   /td> <td></td>	176 mg/m3   area san energene   176 mg/m3   area san energene   5 mg/m3   area san energene   13 mg/m3   area san energene   13 mg/m3   area san energene   13 mg/m3   area san energene   13 mg/m3   area san energene   14 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene   15 mg/m3   area san energene	
Use!         benzen	enzene 15 mg/m3 erae san enzene 135 mg/m3 erae san enzene 135 mg/m3 area san enzene 13 mg/m3 area san enzene 13 mg/m3 area san enzen enzene 13 mg/m3 area san enzen  fuel	
Viel         Desirant           VIEK         3 galino           MEK         2 galino           Palabilitarine         2 galino           Palabilitarine         3.5 galino           Palabilitarine         3.5 galino           Palabilitarine         1 galino           Palabilitarine         1 galino           Palabilitarine         1 galino           Palabilitarine         1 galino           Palabilitarine         1 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine         1.5 galino           Palabilitarine <td>angins and sea san angins area san area sa</td> <td>fuel</td>	angins and sea san angins area san area sa	fuel
Vet         3 gal/mo         Denotes of particular control of particu	135 mg/m3 area san ar	·
VEK         3 gal/mo         MEK           Agresser         2 gal/mo         111 TC.           Balul/primer         5 gal/mo         111 TC.           Balul/primer         3 gal/mo         MEK           Balul/primer         3 gal/mo         MEK           Balul/primer         1 gal/mo         MEK           Balul/primer         1 gal/mo         MEK           Balul/primer         1.55 gal/mo         MEK           Balul/primer         1.55 gal/mo         MEK           Balul/primer         1.55 gal/mo         MEK           Balul/primer         1.55 gal/mo         MEK           Balul/primer         1.55 gal/mo         MO           Balul/primer         2 gal/mo         NO           Balul/primer         2 gal/mo         NO           Balul/primer         1.5 gal/mo         NO           Balul/primer         1.5 gal/mo         NO           Balul/primer         6 gal/mo         NO           Balul/primer         6 gal/mo         NO           Balul/primer         6 gal/mo         NO           Balul/primer         6 gal/mo         NO	13 mg/m3 area san EK  EK  1902 da 1902 da 1903 da 1903 da 1903 da 1903 da 1903 da 1903 da 1903 da 1903 da 1903 da 1903 da 1903 da 1909	100
MEK         3 gal/mo         MEK           degresser         2 gal/mo         111 TC           alaufupriner         5 gal/mo         MEK           alaufupriner         3 gal/mo         MEK           alaufupriner         1 gal/mo         MEK           alaufupriner         1 gal/mo         MEK           alaufupriner         1 gal/mo         MEK           alaufupriner         0.5 gal/mo         MEK           alaufupriner         1.55 gal/mo         MEK           alaufupriner         0.5 gal/mo         MeK           alaufupriner         6 gal/mo         MeK           alaufupriner         6 gal/mo         MeK	1992 da   1993	1001
11   12   13   14   15   15   15   15   15   15   15	1962 da   1962 da   1962 da   1962 da   1962 da   1963	
gradure         2 gallmo         111 TC.           Int/primer         5 gallmo         Internet           Int/primer         3 gallmo         MEK           Int/primer         1 gallmo         MEK           Int/primer         1 gallmo         MEK           Int/primer         1 gallmo         MEK           Int/primer         1 gallmo         MEK           Int/primer         1 35 gallmo         MEK           Int/primer         1 35 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         2 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer         0.5 gallmo         Int/primer           Int/primer <td< td=""><td>11 T.C.A. 1983 da 1983 da 1983 da 1983 da 1983 da 1983 da 1983 da 1989</td><td>S. C.</td></td<>	11 T.C.A. 1983 da 1983 da 1983 da 1983 da 1983 da 1983 da 1983 da 1989	S. C.
degreeser         2 galmo         111 TC.           galut/primer         3.5 galmo         MEK           pain/primer         3.5 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         1 galmo         MEK           pain/primer         0.5 galmo         MEK           pain/primer         0.5 galmo         MEK           pain/primer         1.55 galmo         MEK           pain/primer         0.5 galmo         MEK           pain/primer         0.5 galmo         MEK           pain/primer         0.5 galmo         MIC           pain/primer         6 galmo         MIC           pain/primer         6 galmo         MIC           pain/primer         6 galmo         MIC	1963 dal 196	
paint/primer         Spalmo         tolluene           paint/primer         3.5 gal/mo         MEK           paint/primer         1 gal/mo         MEK           paint/primer         1 gal/mo         MEK           paint/primer         1 gal/mo         MEK           paint/primer         1 gal/mo         MEK           paint/primer         0.5 gal/mo         MEK           paint/primer         1.55 gal/mo         MEK           paint/primer         0.5 gal/mo         MEK           paint/primer         1 gal/mo         MEK           paint/primer         2 gal/mo         MC           paint/primer         12 gal/mo         toluene           paint/primer         6 gal/mo         toluene           paint/primer         6 gal/mo         toluene           paint/primer         6 gal/mo         toluene           paint/primer         6 gal/mo         toluene           paint/primer         6 gal/mo         toluene	International Property (1989 daily control of the c	degreaser
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о дайто	WEK	
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9 kdg *	Emis Pl.s.	Metertal Used	Amount Used or Time Run	Š	Specific Gravity	Fuel Flow (Ibe/1000	Denetty (Ib/gel)	Pollutent	Emission Con Factor Us	Controls Estimated Emissions	- UNITA	Community
375	Generalusade	doctageor	200	1			S SON		100 March 100 Ma			
		177	3	Navino Secondo	The second second second second			perc	さいかいえか きょうしんりがんごう	Property of the Control of the contr	The Art Control of the Bud Self Spring Brogger Control	1988 data; general usage
375	General usage	patnt/lubricant	, <b>o</b>	gal/mo		5 \$15 September 1		tofuene				作,是一个人,是是是不是一个人,是是一个人,是是一个人,是一个人,是一个人,也不是一个人,是一个人,是一个人,是一个人,是一个人,也是一个人,也是一个人,也是一个人,
		painvilloncant	5.4	далшо	Con Charles Const.	his a control of the second of	ζ.	MEK	Sharp with Market bill	Section of the sectio	The state of the s	
375	General usage	MEK	z -	0 gal/mo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			MEK	2507662990			
		degreaser	12.25	gal/mo			-	111 TCA				tyes data; general usage
		Corr. Resist. Coatii	13.5	gal/mo			υ.	chromic acid				
-		primer		gavmo			< <	MEK				
		ā	-	gal/mo			. #	loluene				
900		:4	×				4411				ACTIVITIES OF CHILDREN	THE THE PROPERTY OF THE PROPER
202	General Usage	Blodine 1200	B C 7 7	gal/mo			٠.	mic acid				1990 data; general usage
		Z Z	440 6	gavino gal/mp			٠.	MEX				
		paint stripper	2400 0	Oat/mo			<	MEX				
		paint stripper	2730 0	gal/mo				2 2				
		paint stripper	330 8	gaľmo			. ~	2 2				
		paint stripper	480 9	дайто			. 2	2				
300000	The second secon	alodine 1200	- 0					Chromic acid				
91.					2000		23	<b>经验的现在分</b>				
382	85 General usage	MEK	50 8	50 gal/mo		The second secon		MEK	SE CONTROLL	THE RESERVE OF THE PARTY OF THE	CANDAR SERVER SERVER SERVE	行うにないできているというというというというというというというというないないできない。
040	Zinc chromate painting	painVprimer						chromate		0.0	0.094 mg/m3	1987 data: TWA: worst case scenario (doors closed)
		painVorimer					J	chromate		0.03	0.035 mg/m3	TWA: worst case scenario (doors closed)
or and the second	Jampanied	paintprimer	8	3 gal/yr	CONTRACTOR CONTRACTOR	00 00 00 00 00 00 00 00 00 00 00 00 00		MEK			•	
1166		200 C. C. C. C. C. C. C. C. C. C. C. C. C.										
3	ACI operations	degreaser	55 gallyr	alyr			-	Perc			Control of the contro	1989 data; general usage
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TO IDENTIFY TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TO THE TOTAL TOT	penetrant	0.2 9	allyr	Service of the Service	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0.00040000000000	11 TCA	A CONTRACTOR OF STREET			
1420	Special Weapons	evaluelys tastlag			Por less and	200						
	Approximations and approximation of the control of	explosive testing	To a second second	STATE OF STREET	the Late Market	Maria State State		Chromium	THE SECOND		.2 mg/m3	Choming the properties of the contract of the
1627	1627 Chemical mixing operations	photo chemicats	**************************************		STREET, STATE OF STAT	C. S.	200 P. C.	Section 1998 Section 1998				
		***		CONTRACTOR OF THE PARTY OF THE			- The State of the state of the	Official	***************		6 mg/m3	1986 data; area sample
2028	General usage	Ş		cal/mo	**************************************	80245 WARA	2300000	Tolliana				California de la companya de la comp
Marie Control of the second	palnVprimer	paint/primer		gal/mo				MEK				1986 data
									000000000000000000000000000000000000000		TANK TENNESSEE	
3020	area air sample	sermatel? operation	uc	10 m 10 m 10 m 10 m 10 m 10 m 10 m 10 m	A CONTRACTOR AND A CONTRACTOR	regardent to distribute	J. Charles	. 5		0.00	0.002 mo/m3	1973 data
\$1457-525-3852A		sermatel? operation	DIC.	C. C. Who C. Alberton Section .			J	omales		0.00	0.004 mg/m3	
3020	3020 General usana (3 buildinns)	Pivilizationing 40 ==14.4										
3008	(chicon o) photo property	degracing	3000	40 galwk			- 1	romic Acid				date unknown
		degreasing	110 galwk	Jahren				A ST				
			TAN TANK	CALESTON OF THE PARTY OF THE PA		8575 X X X 25.25		ביי היים ביים ביים ביים ביים ביים ביים ב	ACTION AND SOMETHINGS	CONTRACTOR CONTRACTOR	**************************************	The state of the s
3820	Alr samples	paint booth	400 m 100 m	C	And College No.	STONE STATE	) 	Chromium		700	0.059 mo/m3	Chromium
7010												
SOUTH STATE OF STATES	area sampies	paint	SAMPLE COLUMN STREET	SERVING MOVES	CONTRACTOR CONTRACTOR CONTRACTOR	Contract of the Contract of	The state of the s	Toluene		12.0	12.02 mg/m3	1990 data
647	Ganaralinana						2		TANK A CONTRACT			
	General Usaya	paint	3.6 6	o gavmo		Chapter was pro-	) 	toluene				1989 data
324	personal air sampling	vab. Degreaser	Store Store Store	10.000 M	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The Artif	100				324 personal air sampling van Dergrafen.
375		van. Degreaser					•	100		001>	mg/m3	1973 data
						100	S423232	רכם		<100	mg/m3	
Note1: Qua	Note1: Quantities aiready calculated in mg/m3.	the state of the s	Contract Con	SON CARRO	STEET WAS STEET	20 78 80 0 C			100 - 100 -	and the state of t		

Note1: Quantities already calculated in mg/m3. Note 2: General usage quantity calculated from percent of chemical and quantitly listed in resource

Emission Rates

| Tolune MEK Perc Chromic acid MEK MEK ME MC MC MC MC MC MC MC Chromic acid MC MC MC MC MC MC MC MC MC MC MC MC MC | 14 lbulmo  The state of the sta |  | Find Rec.   Denially   |--|--|--|--|
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301		er e settand filter for salfage		Time Run	- Columbia	Fector	Emissions	S L	Comment
5	Circomic Acid stack concentration	stack sample		Chromic Acid 17-2.6 mg/m3	Chromic Acid	* demonstrate the second	1.7-2.6 n	7	980 data
	baseline data		See note 1		perc	**************************************	15.75 S. 15.05	mes -	986 data
		coating	See note 1		ethyl benzene				986 data
		coating	See note 1	0.548 pal/mo	Tolliene				986 data
		paint	See note 1	0.15 gal/mo	MEK				986 data
		paint	See note 1	0.27 gal/mo	Toluene				1986 data
		Supper	See note 1	0.375 gal/mo	MC			-	1986 data
		coating	See note 1	3300 gal/mo	Tokion	:			986 data
		paint	See note 1	0.45 gal/mo	MFK				1986 data
			See note 1	5 gal/mo	Toluene				1986 data
			See note 1	3 gal/mo	MEK				1986 data
		product lishe-lok	See note 1	5 gal/mo	perc			-	986 data
		WOL OCCU	200 11016	U.Z gar/mo	dichioroethane			- 3	986 data
		20	Age was about the second		perc	VAPO			1007
**************************************	45 vapor degreasing	area sample			: .	yes		1.1	1987 data
	AA Dominion					200	201	- 1985	
	44 Degreeser	perc					135.00	*	il a series
				CHANGE CONTRACTOR OF THE PROPERTY OF THE PROPE	12579091200, CO. 2.7000202	A CONTRACTOR OF THE PROPERTY O	270.00	1	1987 data
ACT CANADAS	9			THE WASHINGTON TO SELECT AND ASSOCIATION OF THE PROPERTY OF TH					
				Vs.01 10.0			0.01	tons/yr 1	1987 data
	44 Degreaser	perc	STATE OF STATE OF STATE OF				135.00		7000
301	45 Degreaser	perc	And the state of t				270.00	tons/yr 1	1900 uata, emission ratas are caluculated 1986 data; emission ratas are caluculated
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2		paint	<b>y</b>		Chromic acid			•	1985 data
		335	01>	<10 gal/mo	Chromic acid		X (40 80 % (40 80 80 80 80 80 80 80 80 80 80 80 80 80	50,404.00	985 data
308	Electronic operations		See note 1 >1	145 140 2 X 3	Tolugae				
: ::		humiseal			MC				1986 data
		product	See note 1	2 gal/mo	MEK				ON CALA
		product	See note 1	25 gal/mo	Trichloroethane	•			987 data
	electronic repair	product	See note 1	24 gal/mo	Toluene			•	
324	6	cating	See note 1	6 callmo					
36 36.00000000 a 1 \$1\$0.00000	The state of the s	-	See note 1	0.25 gal/mo	Toluene				SOS CARA
7.7. PCL	224 motellila and			Maria .					
17	medizing area	coating	See note 1	0.24 gal/mo				-	1989 data
	Bungo		See note 1	0.51 gal/mo	toluene				1989 data
329	GTE starter cleaning				2000				
000		10 12 18 18 18 18 18 18 18 18 18 18 18 18 18			yaic	pool 4.43 mg/m3 1985 data; ave	54.43 mg/m3	r Sm/gn	1985 data; average of 7 samples
329	1 paint area facility 2 naint area facility				Unknown/Assumed perc	umed perc	0.16	tons/yr 1	
	2 paint area facility	area sample			Unknown/Assumed perc	umed perc	11,11		986 data
	4 paint area facility				Unknown/Assumed perc	Imed perc	:::::	Ī	1986 data
	5 paint area facility	area sample			Unknown/Assumed perc	med bein	:::::		986 data
	6 paint area facility	area sample			Inknown/Assumed perc	imed perc			986 data
	7 paint area facility	area sample			Unknown/Assumed perc	imed perc	300	tonefur	Section of the sectio
	8 paint area facility	area sample			Unknown/Assumed perc	Imed perc	:::::		OAR Jets
N. ASSESSMENT STATES	paint area fa	area sample			Unknown/Assumed perc	umed perc	:		986 data
320	400 Daile Decil						: 3	1	

100   District	₽	101 Paint Booth	Unknown	Lador Lased Emissions	
10 Particle Communication   10 Particle Communication		102 Paint Booth	Linknown	0.30 tons/yr	r 1987 data
100 Part Boots   Unknown	•	103 Paint Booth	(Juknown)		
100 Participate Chemical Distriction   Unknown   Unkno		104 Paint Booth	Linknown		
100 colors   100	,_	105 Drying Oven	Unknown		
100 Payer   2000   2000   2000	,_	106 Drying Oven	Unknown		•
100 per li form   Univosen   Un		107 Drying Oven	linkanwa		•
100 Peril Booth   Unknown   Unknow			Unknown		•
1010 Pint Booth   Univoyan   Un			SECTION OF THE STREET OF THE SECTION	00'0	1987 de
10   Part Book   Unknown					
10.2 Paint Booth   Unknown   Unkno	-	101 Paint Booth			•
10   10   10   10   10   10   10   10	•	102 Daint Booth	CIRCIOWA		•
10   Ching Oran   Uniform   Unifor	•	102 Daile Book	UNKHOWN		
100 Partial Booth   Unknown   Unkn		ius Paint Booin	Unknown		
150 Driving Orean   Unknown   150 Driving Orean   Unknown   150 Driving Orean   Unknown   150 Driving Orean   Unknown   Unkn	'	104 Paint Booth	Unknown		•
10 Purity Over   Unknown	,-	105 Drying Oven	Unknown		•
100 Ones   100 Ones	_	106 Drying Oven	Unknown		
100   Drony   100   Drony	_	107 Drying Oven	Ilokoom		
Fig. 200   DONE)   Fig. 200   F	_	108 Drying Oven			•
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An imprise test called   JP-4   CD   CD   CD   CD   CD   CD   CD   C		lest stands		ves 160.220	1982 data: RS& removel efficiency /orderland
Comparison		Jet engine test cells		9080	1000 date: 4000 and a feet of the feet of
10   10   10   10   10   10   10   10					1302 data; 1306 engines tested in 1962; various types
Comparison					1962 data
1   1   1   1   1   1   1   1   1   1					1982 data
Perc   Perc			SOX		1982 data
Proceeding and present sampling   Procedural region   Procedural			XON		1000
Perc					PO 7061
An organic part   An organic		electrical repair area		のできた。そのでは、これではないできないというないできない。	The state of the s
Tradition   Trad				40 mg/m3	1984 da
Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patricy and Cleaning grades   Patrick and Cleaning grades   Patr	CONTRACTOR OF THE PERSON OF TH	STATE OF THE PROPERTY OF THE P		1 mg/m3	1984 data; air sampling
Part Gening area   Special Usage   See note   S5 galino   Unknown   S6 galino   Unknown   S6 galino   Unknown   Un	AND CONTRACT	は必要はない。 ははははははなからした。 ないなどはないない。 ないないないない。 ないないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないない。 ないないないない。 ないないないない。 ないないないないない。 ないないないないないない。 ないないないないないないない。 ないないないないないないない。 ないないないないないないないない。 ないないないないないないないないないないない。 ないないないないないないないないないないないないないないないないないないない			
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1 Degreeser		THE REPORT OF THE PARTY OF THE		00 tonstyr	1986 data
Beleated chying over   Unknown   U	COLUMN AND CO	7 Dantascar			
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Introduction   10 to the continued perconage   10 to the con	Columbia   Columbia		18 test stand	Unknown			0.05		1900 data; emission rates are caluculated
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1,00   London   1,00   Londo	1,000,000,000,000,000,000,000,000,000,0		27 test stand	Unknown			0.05		1986 data; emission rates are caluculated
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Shop   Difference   Differenc	Stop   District Cearing   Dist			Jnknown					
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Shop   Unknown	1500   Unknown   1500	- 33	oo Degrease	ă٠	- 3				1987 data
The control of the	Commonweal part	1	70 Daint Ch.		25			82	
Commonweight   Comm	Committee   Unknown						* *DASTIBLITY D	. '	1987 data
Control   Cont	Commonweight   Comm	1	62 Chemical Character						
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13.00   Director   13.00   Dir	1970   Part		S. C. George St. C. S.					4 2 2	
Facility   Unknown   Sea note   10 gatter   10 gatte	Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   Unknown   Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   Unknown/Assumed parc   Facility   F		70 Paint Shor	perc			32.40		1986 data; emission rates are caluculated
Facility   Unknown   Assumed perc   Facility   Unknown	Facility   Unknown   Assumed perc   Facility   Unknown   Assumed perc   Facility   Unknown   Assumed perc   Facility   Unknown   Assumed perc   Facility   Unknown   Assumed perc   Facility   Unknown   Assumed perc   Facility   Unknown   Assumed perc   Assumed	10	32.7	Unknown		a se consequence and copyright states that the state of the second consequence of the second con	15.00		1986 data; emission rates are caluculated
Facility   Unknown   See note 1   65000 gal   MEK   See State	Table   Construction   Constructio		96 Paint Facility	1Inknown/Accimad name					
Pacific   Paci	Pacific Nation	43		d Pallings Villamin	2000 1 400 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1				
March   Marc	March   Marc		Paint Facil	Distriction					
National	shop hangar         area sampling         NC         164.5 mg/m3         1986 data area sampling           area sampling         Tolusna         1,044 mg/m3         1986 data area sampling         1996 data area area sampling         1996 data area area sampling         1996 data area area area sampling         1996 data area area area area sampling         1996 data area area area area area area area a	0.45		2			5.6	3	1986 data; emission rates are caluculated
The number of the sampling	1985 cate as sampling		Paint sho	area sa					
The interest of the content of the	The control of the					Chromates	104:	mg/m3	1986 data
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Perc   2.651 mg/m3   1966 data   1966 da	The color of the					MEK	10	mu/m3	1086 756
Perc   CO286 mg/m3   1986 data   Perc   CO286 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   CO280 mg/m3   1986 data   Perc   Perc   CO280 mg/m3   1986 data   Perc   Pe	Perc   0.286 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   0.200 mg/m3   1986 data area sampling   Perc   Perc   0.200 mg/m3   1986 data area sampling   Perc   Per			area sampling		Perc	2.65	ma/m3	1986 data
Perc   0.209 mg/m3   1986 data	Perc   D. 209 mg/m3   1986 data   1986 d			area sampling		Perc	0.286	5 mg/m3	1986 data
The color of the	MEK   0.14 mg/m3   1986 data				Perc	0.20	mg/m3	1986 data	
All the control of	MEK   0.25 mg/m3   1986 data		٠,		MEK	0.1	1 mg/m3	1986 data	
MEK   0.039 mg/m3   1986 data	MEK   0.039 mg/m3   1986 data area sampling   MEK   0.039 mg/m3   1986 data area sampling   MEK   0.037 mg/m3   1986 data area sampling   MEK   0.077 mg/m3   1986 data   1986 data area sampling   MEK   yes   260.00 tonsyr   1987 data   MEK				MEK	0.26	5 mg/m3	1986 data	
Pacific Active	The series are sampling					MEK	0.03	9 mg/m3	1986 data
The sampling   All the sample   All th	The litting area sampling area sampling area sample   MC   yes   260.00   tons/yr   1987 data					MEK	0.252	2 mg/m3	1986 data
if Painting         area sample         MC         yes         260.00         tonstyr         1967 data           Unknown         See note 1         66000 gal         stripper         324.00         tonstyr         1987 data           Unknown         See note 1         66000 gal         stripper         1985 Data           Unknown         See note 1         66000 gal         MEK         1986 data; emis           Facility         Unknown/Assumed perc         8.29 tonstyr         1986 data; emis           Facility         Unknown         8.29 tonstyr         1986 data; emis	if Painting         area sample         MC         yes         260.00         tons/yr         1997 data           Unknown         See note 1         66000 gal         sripper         324.00         tons/yr         1985 Data           Unknown         See note 1         66000 gal         sripper         324.00         tons/yr         1985 Data           Facility         Unknown         See note 1         6600 gal         MEK         324.00         tons/yr         1986 data.emis           Facility         Unknown         See note 1         10 gal/mo         MEK         8.29         tons/yr         1986 data.emis           Facility         Unknown         See note 1         10 gal/mo         MEK         8.29         tons/yr         1986 data.emis           Facility         Unknown         See note 1         10 gal/mo         MEK         1986 data.emis           Facility         Unknown         See note 1         10 gal/mo         MEK         1986 data.emis           Facility         Unknown         See note 1         10 gal/mo         MEK         1986 data.emis           Facility         Indiangen         MEK         See note 1         10 gal/mo         MEK	*	を できない できない できない できない かんしょう しゅうしょう かんしょう しゅうしょう かんしょう しゅうしょう しゅう しゅうしょう しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅうしゃ しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう	ampling		MEK	700	7 ma/m3	1986 data
Painting area sample	Painting area sample	2.							100
Autonome	Alice Sample   Alic	_	24 Aircraft Painting		The state of the s		**************************************		
Unknown	Unknown	X	Application of the state of the			MEK	41.00	tons/vr	
Unknown   See note 1   66000 gal   stripper   1985 Data   1986 D	Unknown   See note 1   66000 gal   stripper   1985 Data   1985 D	1	21 0						
Unknown   See note 1   66000 gal   MEK   1985 Data   1986 Data	Unknown   See note 1   66000 gal   stripper   1995 Data   1995 D	- %	MR4 Palm	Unknown	一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一		324.00	tons/yr	1987 data
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Facility   Unknown/Assumed para	Facility  Facility  Luhknown/Assumed perc  Facility  Unknown  Lausage  Corr. Resist Coafing See note 1 10 gal/mo chromic acid rubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK  Lubber base adhesive See note 1 1 gal/mo MEK		24 Paint	Unknown			224.00		
Facility         Unknown/Assumed perc         8.29 tons/yr         1987           Facility         Unknown         8.29 tons/yr         1986           ral usage         MEK         See note 1         10 gal/mo         MEK         1988           Corr. Resist. Coating         See note 1         13.5 gal/mo         chromic acid         1988           rubber base adhesive         See note 1         1 gal/mo         MEK         1988	Facility         Unknown/Assumed perc         8.29 tons/yr         1987           Facility         Unknown         8.29 tons/yr         1986           ral usage         MEK         See note 1         10 gal/mo         MEK         1988           corr. Resist. Coafing         See note 1         13.5 gal/mo         chromic acid         1988           ubber base adhesive         See note 1         1 gal/mo         MEK         1988           primer         See note 1         1 gal/mo         MC         1988	V3!					324.00	tons/yr	200
Facility         Unknown         6.29 tons/yr         1886 data;           ral usage         MEK         See note 1         10 gal/mo         MEK         1988 data;           Corr. Resist. Coating         See note 1         1 gal/mo         chromic acid         1988 data;           Inubber base adhesive         See note 1         1 gal/mo         MEK         1988 data;	Facility         Unknown         6.29 tons/yr         1986 data, 1986 d	- 3	=	Unknown/Assumed perc	The state of the s	AND THE STATE OF T	8.29	tons/vr	987
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Tubber base adnessive See note 1 1 gal/mo MEK	ruboer base adhesive See note 1 gal/mo MEK primer See note 1 gal/mo MC			1:	13.5	٠,٠			1988 data; general usage
	primer See note 1			rupper base adnesive	- :				1988 data; general usage
Filling Order Holde I Bailmo MC				primer					1988 data nanarat usana

Sea note         2.5 gallino         pierc         1 spartino         1 partino         MEK         1 partino         1 part	General usage welding shop welding shop 26 Aircraft Parts Painting 27 Stripping/Cleaning	AEK  MEK  Bain/primer  Bain/pri	See note 1 See note 1	22.5 gal/mo 3 gal/mo 3.5 gal/mo 3.5 gal/mo 1 gal/mo 1 gal/mo 1.55 gal/mo 1.55 gal/mo 1.55 gal/mo 1.55 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 2 gal/mo 6 gal/mo 6 gal/mo		Ou			88 data; general usage 82 data 89 data 89 data 89 data 89 data 89 data 89 data
See note 1         5 galfmo MEK         1992 data           See note 1         5 galfmo MEK         1993 data           See note 1         3 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         1 galfmo MEK         1993 data           See note 1         2 galfmo MEK         1993 data           See note 1         2 galfmo MEK         1993 data           See note 1         2 galfmo MEK         1993 data           See note 1         2 galfmo MEK         1993 data           See note 1         2 galfmo MEK         1993 data           See note 1         2 galfmo MEK	welding shop welding shop 26 Aircraft Parts 27 Stripping/Clea	ALEK  Sain/primer	See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1 See note 1	3 galfmo 5 galfmo 3.5 galfmo 1 galfmo 1 galfmo 1 galfmo 1.55 galfmo 1.55 galfmo 1.55 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo 2 galfmo		Ou		M-1,	componer.
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Unknown         60,000.00 lbs/yr         Perc         1985 data           general emission calcs         Unknown         MEK         100         179,510 lb/yr         1982 data           general emission calcs         Unknown         perc         25         507,992 lb/yr         1982 data           general emission calcs         Unknown         stripper (M         100         15,552 lb/yr         1982 data           Paint Stripping         area sample         ARK         no         238,291 lb/yr         1987 data           Paint Stripping         area sample         17.00 lonskyr         1987 data	Stack emissions	Unknown			Hex Chrome		The second secon	19	The second secon
general emission cates         Unknown         MEK         100         179,510         Ib/Y         1982 data           general emission cates         Unknown         perc         25         507,992         Ib/Y         1982 data           general emission cates         Unknown         15,552         Ib/Y         1982 data           general emission cates         Unknown         15,552         Ib/Y         1982 data           Paint Stripping         area sample         ARK         no         238 231         Ib/Y         1987 data           Paint Stripping         Unknown         17.00         tons/Y         1987 data	and the confidence of the confidence of the confidence of the confidence of the confidence of the confidence of	חאנ			Perc			_	R5 data
general emission calcs         Unknown         MEK         100         179,510         blyr         1982 data           general emission calcs         Unknown         perc         25         507,992         blyr         1982 data           general emission calcs         Unknown         to bly         1982 data           Paint Stripping         area sample         no         15,552         blyr         1982 data           Paint Stripping         Unknown         MEK         no         238,291         blyr         1987 data					8 50	4000 10 10 10 10 10 10 10 10 10 10 10 10			
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general emission calcs Unknown toluene 100 15,552 lbyr 1 general emission calcs Unknown stripper (M 100 238,291 lbyr 1 50 Paint Stripping area sample 17,00 tonsyr 1 50 Paint Stripping Unknown	general emission calcs	Unknown			Derc	35		•	Pipe 20
general emission calcs Unknown 15,322 lbyr 1 Paint Stripping area sample Daint Stripping Unknown	general emission calcs	Unknown			tolitone	3 5			BIBD 20
Paint Stripping Unknown Unknown		Unknown			etrippes (A4	200			52 data
Paint Stripping area sample 17.00 to the stripping Unknown Paint Stripping Unknown	#6  37	The second of th	THE RESERVE AND ADDRESS.		oer (M	***********	5	•	32 data
50 Paint Stripping Unknown	Pair	area sample					૾ૺૢૄ		
50 Paint Stripping Unknown							3	Tou's	THE STATE OF THE S
	50 Paint Stripping	Unknown				TO STATE OF THE ST	ို့ န	A COLUMN TO THE	

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			194 194 194	Control of the Contro			
	1907 data; 1WA; worst case Scenario (doors closed) 1987 data; TWA; worst case scenario (doors closed) 1987 data						
	(doors		ated				
•	enano		aluculs				
Commant	859 SC 859 SC		S are C				
	vorst c		on rate				
	TWA;		emissi		100000		
	1987 data 1987 data	1987 data	1986 data; emission rates are caluculated	1986 data	1980 data	1985 Data 1985 Data	1985 Data 1985 Data
	198	. 130	250	8 8	198	198	198 198
UNITS	g/m3	tons/yr	0.30 tons/yr		g/m3		ı
17 Miles	0.035 mg/m3	0.30 tc	3 8		0.059 mg/m3		
Polluriari Fractor Controls Estimated Forces Used Emilabora Control of the Contro	0	0	0		0		
8 <b>5</b>	26 26 80 80 80 80 80 80 80 80 80 80 80 80 80						
					= 32		томе
Pollutent	chromate MEK		Toluene	MEK	Chromlur	MEK	carbon remove
	৳ ₹ ৴		10		ا 	2 ₹ 8	ខិត
<u>\$</u>	gall/yr		gal/mo	gal/mo		a da da	gal
1	က					20000 gal	17500 gal
The Run			2	7		•	- 8
			1.	- F			-
Pero min	See note		See note	See note	See note	See note 1	See note
15 段 16 篇		perc	34/3	S	200	oov	S
<b>3</b>	painVprimer painVprimer	Unknown/Assumed p		100			
Material PalnVprimer	painVprimer painVprimer	own/As	раіпУргітег	painVprimer		L MO	own
paint	palnt/ paint/	Unknown	paint	paintprimer		Unknown	Unknown
	is.						\$ 120 miles
Zinc Chromate Painting paint/primer		olvent Tank Unknown/Assumed pe					
Tate P		눑	sage	(1) (4) 2	}		
c Chro		56 Solvent Tank 56 Solvent Tank	General usage	Air camples			
ā		56 Sol	General usage painty and painty primer	All camples			
	1.1				uw.		
645 Zinc Chroma		920	2028	3820	Unknown	Unknown	Unknown
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Engine Kunning Uma	1		
Engine	<b>Fuel Type</b>	Mins, per Test	
T-56	JP.		105
J-79	JP.4		145
TF-39	P-4		150
GTCP85 180	JP.4		10
TCP85 70A	P4		
GTCP85 71A	P4		5
3TCP85 106A	P4		
TCP85 397	JP.4		16
TCP85 9A	BV das		2
GTCP85 15	- P		6
T41M8	JP-4		100
T41M 9A	JP4		146
GTCP 165-1	P4		
62T32	70		; ;

Total Test Time
77.92657143 Avg mins per lest
1368 Tests conducted in 1982
106606.2657 Total mins testing in 1982
9

	The section of the se	Used emission factors provided in 1999 AEI Guidence document for the	T-56-A7 engine					No emission factor for idle. Used approach emission factor.	
		0.18389	0.02383	1.58611	0.05017	0.10456	0.01196	0.01236	
	Page 2	None	None	None	None	None	None	None	
	Enterbol ()	0.00478	0.00062	0.0411	0.0013	0.00271	0.00031	0.00032	
	Policient	Benzene	Ethylbenzene	Formaldehyde	MEK	Toluene	m,p Xylene	o Xylene	
	O'N Dennity (Separal 1875)	ΥN							
		0.724	0.724	0.724	0.724	0.724	0.724	0.724	
	Unit Specific	Win NVA	.5	<u> </u>			.s	mln	nventory
	Amount Used or Time Run	106606 m	m 908001	106806	106606	106606		106806 m	Air Pollution Emissions Inventory
	December	N/A						- 1	and 1982 Air Polluti
	Participant (	*dr						100	ine rest raciilles
orce Engine Test Facilities	Description	T-56 Test Cell						Sources: 1075 Memo Alr Dollinion Emissions from Air Excess Facility	sions from Air Porce Eng
ion Emissions from Air	Emis Pt #	Unknown						Alr Pollution Emis	
Source: 1975 Memo. Aif Pollution Emissions from Air Force Engine Test Facilities	8 log &							Sources 1975 Memo	concest 1515 Intellio.

### Input Value Calculations